

ANNUAL REPORT
OF
THE MINES BRANCH
OF THE
Department of Lands and Mines
OF THE
PROVINCE OF ALBERTA

1939



EDMONTON:
A. SHNITKA, KING'S PRINTER
1940

EDMONTON, ALBERTA,
February 15th, 1940.

TO THE HON. N. E. TANNER,
Minister of Lands and Mines.

SIR:

I herewith submit the report of The Mines Branch for the year ending December 31, 1939.

Respectfully submitted,

A. A. MILLAR,
Chief Inspector of Mines.

ANNUAL REPORT OF THE MINES BRANCH FOR THE YEAR
ENDING DECEMBER 31st, 1939

(ANDREW A. MILLAR, *Chief Inspector*)

The output of coal produced from mines in the Province during the year 1939 was 5,518,105 tons, with a valuation of \$14,454,327.87, this being an increase of 288,090 tons over the output for 1938.

In addition to the above tonnage, there were 362 tons produced by farmers under permit for their own use, which has not been included in the total output.

The disposition of coal during the year was as follows: 1,241,618 tons sold for consumption in Alberta; 1,782,846 tons sold for consumption in other Provinces of Canada; 33,139 tons sold to the United States; 2,109,684 tons sold to railroad companies for locomotive use; 43,874 tons used for making briquettes, 103,191 tons used making coke; 145,275 tons used under colliery boilers; 6,282 tons used by colliery railroads; 51,295 tons were put to stock and 52,170 tons were put to waste.

The months of October, November and December were extremely mild and the output from the domestic mines consequently, was much below expectation.

The increase is chiefly attributable to increased railway demand, and Ontario has also helped by taking more domestic coal.

During the year 4 shale pits produced 27,236 tons of shale and clay from which 8,194,685 bricks and 2,649 hollow tiles were made.

There were 294 mines in operation during the year, of which 16 were opened, 1 re-opened, and 15 abandoned. In addition to the mines abandoned, 21 were closed, leaving 269 in operation as at December 31st, 1939.

A new Mines Act was proclaimed during the year, and it provided, amongst other things, for two classes of miners' certificates, and for mine electricians being certificated.

There were 615 miners' certificates issued during the year, and 83 candidates were granted mine electricians' certificates.

During the year the following staff changes were made: Mr. John Crawford was transferred from Drumheller to the Edmonton-Camrose district and Mr. John T. Burton, formerly mine manager at Wabamun, was appointed to succeed Mr. Crawford.

A new departure was made in the appointment of Mr. Burton Tait as Electrical Inspector of Mines, with jurisdiction over all the mines in the Province.

The number of fatal accidents for the year was 17 as compared with 21 in 1938.

An accident in the last shift of the year at Cadomin was responsible for the death of three workmen by asphyxiation with Methane gas.

Notice was received of the abandonment of Hillcrest Collieries, Limited, one of the oldest mines in the Province, and a large producer for many years. The interests of Hillcrest Collieries, Limited, and the Mohawk Bituminous Mines, Ltd., have been consolidated

in a new company known as Hillcrest Mohawk Collieries, Limited, and the operation will now be concentrated at the Mohawk Mine, Bellevue.

Very little labour trouble occurred during the year just closed.

Samples of mine air were taken at various mines during the year by the inspectors, and at Cadomin weekly samples were taken from the holes drilled from the surface into each working panel. The samples being forwarded to the Chemistry Branch of the Department of Mines, Ottawa, for analyses, this being done in addition to testing the air with the Burrell, McLuckie and M.S.A. Methane Detectors.

Samples of coal have been collected and forwarded to the Industrial Research Council, University of Alberta, for analyses.

All fatal and serious accidents have been investigated by the inspectors, who also attended the inquests in their areas, this being in addition to the regular inspection of the mines.

There were 22 prosecutions instituted for contravention of The Mines Act, made up as follows: 1 operator, 1 overman, 8 miners, 5 farmers, 6 timber packers, and 1 telephone lineman out of work.

There were 27,575,926 K.W. hours of electrical purchased power used by the mines in the Province during the year.

The distribution of purchased power by mines in the various areas was as follows: Big Valley 18,888 K.W. hours purchased from the Union Power Company, Ltd., Drumheller, who also supplied 161,088 K.W. hours to mines in Carbon and 4,290,933 K.W. hours to mines in the Drumheller area.

The Calgary Power Co., Ltd., supplied purchased electrical power to mines in areas as follows: Camrose, 5,052 K.W. hours; Edmonton, 460,040 K.W. hours; Gleichen, 1,870 K.W. hours; Lethbridge, 2,024,128 K.W. hours; Taber, 7,300 K.W. hours; Nordegg, 1,220,800 K.W. hours; and Saunders, 118,600 K.W. hours.

The City of Edmonton supplied 935,132 K.W. hours to Edmonton mines.

The mines in the Crowsnest area purchased 18,262,095 K.W. hours from the East Kootenay Power Co., Ltd.

The City of Medicine Hat supplied mines in Redcliff area with 70,000 K.W. hours.

Two mines in the Coalspur area also exchanged 53,300 K.W. hours.

There were 9,035 men employed at the mines during the month of December, 1939, being 224 less than there were in the corresponding month of 1938.

Some advance is being made in the use of hard hats and other protective equipment. In the Crowsnest mines practically 100 per cent are wearing hard hats, and for the Province at least one man in every four is so equipped. Seventy-five per cent of the hats in service, however, are in the Crowsnest, but at some of the large mines practically none are being worn.

Two hundred and sixty men were reported wearing safety shoes. In one mine, 28 men were wearing goggles.

Fire was responsible for destroying two large mine tipples, one at the Murray Mine, East Coulee, and the other that of the Red Deer Valley Coal Co., Ltd., Drumheller. A new one was completed at the Murray, but at the Red Deer Valley Mine a temporary tipple was erected in record time and production was resumed.

A new and up to date tipple is to be erected at the Red Deer Valley Mine in the spring.

No new development of importance has been made, but a new mine located on the East 1/2 of Section 34-17-5-5 in the Highwood district has been opened by M. P. Johnston of Calgary, and is known as the Blue Blaze Syndicate. It has been given considerable publicity, and a seam of coal 16 feet thick has been proved by a short slope.

The seam is pitching about 65 degrees, and the analyses of the samples shows the coal to be of high quality. Considerable ash is present, but it is not yet known whether this is common or foreign to the seam. This mine has no railway connection.

Plant improvements and changes have been limited this year, the following being the most important:

At the International Mine and McGillivray Creek Mine, Coleman, considerable additions and changes have been made in the washing, cleaning and drying equipment, and at the International Mine a crusher to reduce the size of coal to a maximum size of 6 inches together with a shaker screen, has been installed; also a rock disposal plant consisting of an electric hoist, rotary dump, etc., has been put into service and is giving good results.

At the Greenhill and Bellevue Mines, Ottumwa box car loaders have been installed, and at Greenhill Mine additional cleaning and drying equipment has been put in, also a small briquetting plant.

At the Mohawk Mine, a Manierre box car loader has been installed, and the installation of a main and tail haulage system for their main road haulage has been started. This will be driven by a double drum hoist of 200 H.P. capacity.

At the Standard Mine of the Lethbridge Collieries, Ltd., a double picking table has been put in, also a 50-ton capacity steel bin for storing the pickings. Underground, 3 pyranol filled transformers each of 50 K.V.A. capacity were installed.

At the No. 8 Mine belonging to the same company, a new 150-gallon pump, driven by a 30 H.P. flameproof motor, was installed at the main shaft bottom and other small improvements made.

At the Midland Mine, a main and tail haulage system was installed, driven by a 50 H.P. flameproof motor, and only small plant changes have been made in the Drumheller district.

At the mine operated by the Beverly Coal Co., Ltd., a main and tail rope haulage, electrically driven, has been put into operation.

THE MINES BRANCH

ANNUAL PRODUCTION OF COAL FROM MINES IN THE
PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1938.

Calendar Year	Short Tons	Value
1886	43,220	\$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	230,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,601
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,933,660	18,205,205
1920	6,907,765	30,186,933
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
1936	5,696,960	14,659,705
1937	5,562,839	14,563,911
1938	5,251,233	13,698,470
Total	162,324,272	\$504,781,123

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1938 the mine output figures are given.

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ANNUAL CONSUMPTION OF COAL IN CANADA, 1902-1938
The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1938.

Year	Canadian*	Imported coal "Entered for consumption"						Per Capita Short tons	
		From U.S.A.		From Great Britain		Total†			
		Short tons	%	Short tons	Short tons	Short tons	%		
1902	5,376,413	53.1		4,656,286	101,726	4,734,559	46.9	10,110,972	
1903	6,005,735	47.3		6,520,931	184,593	6,678,450	52.7	12,684,185	
1904	6,597,183	47.9		7,238,869	85,687	7,257,482	52.1	13,594,665	
1905	7,032,661	49.4		7,235,338	67,014	7,758,325	49.5	14,249,107	
1906	7,927,560	50.5		7,787,338	10,588,697	10,351,503	50.0	15,685,885	
1907	8,617,352	45.0		10,203,697	97,514	10,185,424	55.0	19,166,855	
1908	8,156,475	47.3		9,805,253	67,671	9,771,826	52.7	19,351,902	
1909	8,911,376	47.9		10,545,451	10,437,123	10,437,123	52.1	18,625,202	
1910	10,332,103	50.2		14,510,129	48,963	14,424,949	49.8	20,970,226	
1911	9,822,749	40.5		12,385,695	38,668	14,539,104	54.0	24,247,698	
1912	12,385,695	46.0		14,557,124	37,825	18,132,387	57.4	26,934,800	
1913	13,450,155	42.6		18,145,769	33,101	14,637,920	54.5	31,582,545	
1914	12,214,403	45.5		14,687,853	12,406,212	12,406,212	54.5	26,852,323	
1915	11,501,480	48.1		12,450,796	15,098	12,406,212	51.9	22,906,692	
1916	12,348,036	41.3		17,576,302	4,401	17,576,302	58.7	23,865,836	
1917	12,313,603	37.2		20,845,009	9,451	20,810,132	41.0	23,123,735	
1918	13,16,731	37.8		21,674,826	3,761	21,611,101	62.8	34,771,832	
1919	11,611,168	40.3		17,292,913	344	17,292,913	59.7	28,847,437	
1920	14,025,566	42.9		18,752,981	1,591	18,668,741	57.1	32,694,307	
1921	12,715,734	41.1		18,300,081	765,980	18,258,387	58.9	30,974,121	
1922	13,044,352	50.2		12,255,555	12,962,189	12,962,189	54.8	32,006,541	
1923	15,070,962	41.8		20,417,239	52,724	20,417,239	58.2	36,038,933	
1924	12,539,355	42.8		16,405,344	42,714	16,405,344	57.2	28,243,501	
1925	12,125,290	42.6		15,744,957	64,117	16,331,971	57.4	28,457,261	
1926	15,086,296	47.7		16,204,405	287,299	16,655,555	52.3	31,651,851	
1927	15,944,983	46.7		17,266,334	907,220	18,177,303	53.3	34,122,236	
1928	16,487,807	50.0		15,830,688	632,755	16,515,582	50.0	33,003,339	
1929	16,387,461	48.0		16,780,452	843,502	17,724,132	52.0	34,111,533	
1930	14,052,671	43.3		16,971,933	1,144,861	18,412,039	56.7	32,464,710	
1931	11,682,779	47.7		11,793,798	987,442	12,828,327	52.3	24,511,106	
1932	11,212,701	49.0		9,889,666	1,727,716	11,654,492	51.0	22,667,193	
1933	11,456,273	51.5		10,586,710	1,942,875	10,808,962	48.5	22,865,295	
1934	13,236,406	51.1		10,586,710	1,981,116	12,651,168	48.9	23,392	
1935	13,306,303	53.1		9,618,518	1,822,500	11,735,835	46.9	23,042,138	
1936	14,508,642	53.3		10,801,643	1,498,656	12,719,515	46.7	27,228,167	
1937	15,172,729	51.5		12,574,574	1,211,052	14,268,585	48.5	29,441,314	
1938	13,800,094	53.5		10,754,747	1,257,887	12,012,634	46.5	25,812,728	

*The sum of Canadian coal-mine sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehouse for ships' stores.

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The following table shows the quantity of coke imported into Canada during the years 1937, 1938 and 1939, through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Ports in Province of	1937 Coke		1938 Coke		1939 Coke	
	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal
Prince Edward Island .....	.....	12,515	.....	7,193	.....	937
Nova Scotia	64	.....	224	.....	.....	.....
New Brunswick	22	.....	49,990	19,215	53,722	23,442
Quebec	41,414	14,282	36,535	35,125	98,334	381,179
Central Ontario	77,582	358,739	.....	23,451	.....	18,209
Head of Lakes .....	.....	17,351	.....	10,794	.....	10,375
Manitoba .....	.....	13,109	.....	.....	.....	.....
Saskatchewan .....	.....	35	.....	.....	.....	.....
Alberta .....	.....	.....	545	904	634	1,729
British Columbia	443	1,702	.....	.....	.....	.....
Total	119,503	417,733	81,294*	414,682	147,690	435,871

Imports of COKE into Canada, by Countries, 1937, 1938 and 1939						
United States	119,503	404,445	81,294	406,763	147,690	433,617
Great Britain .....	.....	3,949	.....	3,388	.....	2,254
Germany .....	.....	9,231	.....	4,531	.....	.....
Belgium .....	.....	108	.....	.....	.....	.....
Total	119,503	417,733	81,294*	414,682	147,690	435,871

*Revised.

NOTE: These figures show the total imports and not the tonnages entered for consumption.
Coal and coke import data cover all tonnages landed at Canadian ports.

Quantity of coal in tons entered for consumption for each year since 1919, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta,
British Columbia and Yukon.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Port France	Port William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,819	111,957	1,391,709	12,336,903	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,966	1,316,155	10,705,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	1,517,250	68,082	9,455,522	74,838	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,876	403,388	70,259	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,934	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,927	142,880	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,915	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,427,556
1934*	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935*	8,032,739	6,033	53,145	591,810	8,683,127	9,918	1,952	1,136	3,722 (a)	9,549,457 (b)
1936*	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524 (d)	10,206,253 (e)
1937*	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540 (g)	12,241,270 (h)
1938*	7,981,712	113,746	56,806	688,371	8,856,635	9,061	783	1,116	2,701 (k)	9,567,334 (l)
1939*	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808 (n)	9,903,613 (o)

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Year	ANTHRACITE COAL						British Columbia & Yukon	Total Canada
	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskat-chewan	
1919	2,977,913	119,234	559	346,442	3,444,148	12,906	.....	136
1920	2,943,134	69,206	2,648	226,476	17,509	206	517	4,972,233
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	4,912,964
1922	1,556,924	21,507	12	36,018	1,644,461	14,715	231	4,567,370
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	2,693,957
1924	2,559,568	4,775	237	84,513	2,689,083	34,222	1,720	5,167,831
1925	2,203,281	37	170	50,751	2,254,049	34,396	702	4,183,594
1926	2,458,674	56	60,810	2,519,494	17,990	464	.....	5,202
1927	2,123,515	51	79,283	2,202,849	15,885	484	.....	4,242,932
1928	2,179,022	42	57,494	2,236,558	10,130	579	.....	3,812
1929	2,246,063	352	303	52,369	2,289,087	9,180	365	3,737,333
1930	2,080,457	224	45,241	2,125,922	8,323	367	.....	597
1931	1,615,643	.....	18,312	1,683,945	3,695	.....	.....	4,019,917
1932	1,250,755	3	12,677	1,263,435	.....	.....	.....	4,256,090
1933	1,129,041	8	8,742	1,137,791	5,669	57	702	3,178,141
1934*	1,374,881	.....	3,030	7,934	6,086	.....	75	3,138,157
1935*	1,370,119	19	9,455	1,385,845	5,852	49	.....	3,035,613
1936*	1,426,613	135	16,350	1,453,098	5,884	58	.....	3,457,339
1937*	1,608,653	8	21,052	1,629,713	5,639	66	34	3,451,318(c)
1938*	1,697,601	69	16,050	1,713,720	4,674	39	.....	1,600
1939*	2,043,142	297	18,459	2,061,888	4,696	.....	33	3,530,040(f)
								1,151
								61
								280
								3,714,201(m)
								3,977,805(p)

*These figures show the total imports and not the tonnages entered for consumption.

- (a) Includes imports into the Yukon Territory of 10 tons in July and 10 tons in October.
- (b) Consists of 9,168,428 tons imported from the United States, 380,645 tons imported from Great Britain, 43 tons imported from Alaska, 285 tons imported from Poland.
- (c) Consists of 1,670,085 tons imported from the United States, 1,454,521 tons imported from Great Britain, 205,045 tons imported from Germany, 67,220 tons imported from Belgium, and 54,447 tons imported from French Indo-China.
- (d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 tons in June, 45 tons in July, and 2 tons in October.
- (e) Consists of 10,042,127 tons imported from the United States, 149,905 tons imported from Great Britain, 9,421 tons imported from Germany, 361 tons imported from Norway, 124 tons imported from Denmark, 45 tons imported from Sweden, 35 tons imported from the Netherlands, 134 tons imported from Estonia, and 286 tons imported from Newfoundland.
- (f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons imported from French Indo-China, 359,994 tons imported from the Netherlands, 16,231 tons imported from Germany, 33,543 tons imported from China.

- (g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in May, 6 tons in June, 45 tons in July and 2 tons in October.
- (h) Consists of 12,333,778 tons imported from the United States, 56,073 tons imported from Great Britain, 54,061 tons imported from Germany, 113 tons imported from Norway, and 200 tons imported from Estonia.
- (i) Consists of 2,003,317 tons imported from the United States, 1,134,855 tons imported from Great Britain, 258,257 tons imported from Germany, 8,131 tons imported from Belgium, 154,495 tons imported from Russia, and 78 tons imported from Morocco.
- (k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July, and 8 tons in October.
- (l) Consists of 9,644,020 tons from the United States, 65,357 tons from Great Britain, 34,258 tons from Germany, and 417 tons from Japan.
- (m) Consists of 1,973,610 tons from the United States, 1,190,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37,594 tons from the Netherlands, and 30,302 tons from French Indo-China.
- (n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.
- (o) Consists of 9,836,110 tons from the United States, 67,483 tons from Great Britain, and 20 tons from Norway.
- (p) Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany, and 43,537 tons from French Indo-China.

THE MINES BRANCH

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Canada, by months during 1939 (short tons):

BITUMINOUS COAL

Month	Central Ontario	Port Arthur	Port Frances	Port William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Man.-Sask.-Alta., B.C. and Yukon	Total Canada
January	243,034	.....	5,109	248,143	1,038	36	95	.....	.....	.....	1,169	271,480
February	211,027	.....	3,425	914	215,366	713	33	108	115	115	969	238,927
March	284,533	.....	3,256	2,139	289,928	3,322	72	144	115	115	1,497	323,997
April	114,058	.....	2,370	116,428	116,422	347	.....	.....	.....	.....	638	141,986
May	156,568	.....	3,062	13,519	173,149	347	.....	.....	.....	.....	561	211,448
June	764,397	12	2,607	30,641	797,857	1,039	218	201	52	52	1,510	909,412
July	923,796	57,087	3,188	30,989	1,015,060	917	133	145	69	69	1,279	1,335,883
August	1,056,464	30	3,368	106,396	1,166,858	639	303	145	420	420	15	1,285,376
September	1,039,100	2,901	9,351	56,305	1,107,757	3,310	322	160	160	160	3,502	1,244,482
October	1,188,214	9,820	8,789	71,650	1,228,473	2,879	30	39	320	320	3,268	1,473,388
November	1,213,531	6,222	6,006	15,564	1,388,423	1,806	70	70	170	170	2,046	1,662,928
December	834,152	1,460	3,241	59,070	894,923	543	73	70	55	55	8	749
Total	8,035,174	77,532	53,772	528,887	8,635,365	15,035	862	990	1,785	1,785	23	18,695
												9,903,613*

*Consists of 9,836,110 tons from the United States, 67,483 tons from Great Britain, and 20 tons from Norway.

ANTHRACITE COAL

Month	Central Ontario	Port Arthur	Port Frances	Port William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Man.-Sask.-Alta., B.C. and Yukon	Total Canada
January	148,697	.....	25	30	148,752	604	.....	.....	.....	.....	604	195,689
February	141,318	.....	36	.....	141,354	445	.....	.....	.....	.....	445	191,143
March	163,708	.....	.....	.....	163,708	571	.....	.....	.....	.....	571	214,127
April	103,694	.....	.....	.....	103,694	305	.....	.....	.....	.....	305	122,484
May	297,740	.....	.....	.....	297,740	236	.....	.....	.....	.....	236	581,592
June	227,976	.....	4,245	232,221	232,221	363	.....	.....	.....	.....	363	462,239
July	163,348	.....	4,846	168,194	168,194	376	.....	.....	.....	.....	376	454,985
August	107,231	.....	4,489	111,720	111,720	338	.....	.....	.....	.....	371	342,840
September	250,065	.....	122	250,187	250,187	427	.....	.....	.....	.....	427	499,806
October	241,675	114	2,963	244,752	244,752	311	.....	.....	.....	.....	341	475,875
November	118,642	.....	1,886	120,528	120,528	331	.....	.....	.....	.....	351	283,914
December	79,048	.....	.....	79,048	79,048	339	.....	.....	.....	.....	339	153,111
Total	2,043,142	.....	297	18,459	2,061,898	4,696	.....	.....	.....	.....	4,729	3,977,805*

*Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany, and 43,537 tons from French Indo-China.

LIGNITE COAL										
January	.....	.....	.....	.....	.....	.....	.....	.....	.....	310
February	.....	.....	.....	.....	.....	.....	.....	.....	736	736
March	.....	.....	.....	.....	.....	.....	.....	.....	154	154
April	.....	.....	.....	.....	.....	.....	.....	.....	70	70
May	.....	.....	.....	.....	.....	.....	.....	.....	172	172
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....	105	105
August	.....	.....	.....	.....	.....	.....	.....	.....	22	80
September	.....	.....	.....	.....	.....	.....	.....	.....	25	180
October	.....	.....	.....	.....	.....	.....	.....	.....	264	370
November	.....	.....	.....	.....	.....	.....	.....	.....	239	789
December	.....	.....	.....	.....	.....	.....	.....	.....	432	432
Total	..	..	..	..	..	..	..	..	6	2,441
									74	3,398
										3,398*

*Consists of 3,346 tons from the United States and 52 tons from Alaska.

TOTAL IMPORTATIONS

TOTAL IMPORTATIONS						
Bituminous	.....	.....	.....	.....	.....	.....
Anthracite	.....	.....	.....	.....	.....	.....
Lignite	.....	.....	.....	.....	.....	.....
	8,035,174	53,772	528,387	8,635,365	15,035	862
	2,043,142	297	18,459	2,061,988	4,696	990
					14	33
						863
						6
Total	10,078,316	77,532	54,069	547,346	10,757,263	19,745
						1,725
						1,029
						4,226
						97
						26,822
						13,884,816

These figures show the total imports and not the tonnages entered for consumption.

THE MINES BRANCH

MINERAL PRODUCTION OF ALBERTA, 1938 AND 1939

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada.

	1938		1939(a)	
	Quantity	Value	Quantity	Value
METALLICS:				
Gold, fine ounces	305	\$ 10,728	359	\$ 12,975
Silver, fine ounces	23	10	32	13
NON-METALLICS:				
Bituminous sands	(b)		(b)	
Coal, short tons	5,251,233	13,698,470	5,518,339	14,413,036
Natural Gas, M. cubic feet	21,822,108	4,807,346	22,703,964	5,018,000
Petroleum barrels	6,751,312	8,775,094	7,595,000	9,873,000
Sodium Sulphate, short tone	89	1,127		
Salt, short tons	4,045	46,035	3,319	37,526
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS:				
Cement, barrels	304,373	611,790	377,846	744,357
Clay Products		377,337		445,164
Lime:				
Quicklime, short tons	11,744	103,922	11,907	105,165
Hydrated lime, short tons	309	3,090		
Sand and Gravel, short tons	792,760	525,175	853,680	611,666
Stone, short tons	1,691	6,148	3,201	15,045
Total		\$28,966,272		\$31,275,947

(a) Subject to revision.

(b) Data relating to production now included under "Petroleum".

Particulars with reference to the coal-mining industry in the Province of Alberta during the year ending December 31, 1939:

SUMMARY OF STATISTICS

Tonnage stripped by farmers under domestic permits	341
Number of short tons of coal produced	5,518,105
Number of short tons of briquettes produced	46,510
Number of short tons of coke produced	68,913
Number of short tons of shale produced	27,236
Number of coal mines in operation during the year	294
Number of shale pits in operation during the year	4
Number of mines opened during the year	16
Number of mines re-opened during the year	1
Number of mines closed during the year	21
Number of mines abandoned during the year	15
Number of mines in operation at December 31st, 1939	264
139 mines or 47.28% of the total operating produced 1.03% of the output.	
67 mines or 22.79% of the total operating produced 2.47% of the output.	
16 mines or 5.44% of the total operating produced 1.93% of the output.	
42 mines or 14.29% of the total operating produced 18.06% of the output.	
15 mines or 5.10% of the total operating produced 20.49% of the output.	
4 mines or 1.36% of the total operating produced 8.96% of the output.	
5 mines or 1.70% of the total operating produced 14.77% of the output.	
4 mines or 1.36% of the total operating produced 20.20% of the output.	
2 mines or .68% of the total operating produced 12.09% of the output.	
Average number of persons employed below ground	5,517
Average number of persons employed above ground	1,939
Number of separate accidents causing loss of life	14
Number of deaths caused by accidents above ground	2
Number of deaths cause by accidents below ground	15
Number of serious accidents above ground	6
Number of serious accidents below ground	51
Number of slight accidents above ground	36
Number of slight accidents below ground	144
Total purchased electrical power (kilowatt hours)	27,575,926
Number of prosecutions instituted	22
Number of Provisional Certificates (overman) issued in 1939	169
Number of Certificates of Competency as Coal Miners issued in 1939	615
Number of Third Class Certificates issued in 1939	62
Number of Second Class Certificates issued in 1939	14
Number of First Class Certificates issued in 1939	4
Number of Mine Surveyors' Certificates issued in 1939	2
Number of Mine Electricians' Certificates issued in 1939	83
Total number of Third Class Certificates issued to December 31st, 1939	1,500
Total number of Second Class Certificates issued to December 31st, 1939	479
Total number of First Class Certificates issued to December 31st, 1939	251
Total number of Mine Surveyors' Certificates issued to December 31st, 1939	195
Total number of Mine Electricians' Certificates issued to December 31st, 1939	83
Total number of Interchange First Class Certificates issued to December 31st, 1939	5
Total number of Certificates of Competency as Coal Miners issued to December 31st, 1939	15,613

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta
1901	346,649	
1902	510,674	
1903	622,939	
1904	782,931	
1905		811,228
1906		1,385,000
1907		1,834,745
1908		1,845,000
1909		2,174,329
1910		3,036,757
1911		1,694,564
1912		3,446,349
1913		4,306,346
1914		3,821,739
1915		3,434,891
1916		4,638,604
1917		4,863,414
1918		6,148,620
1919		5,022,412
1920		6,908,923
1921		5,937,195
1922		5,976,432
1923		6,866,923
1924		5,203,713
1925		5,883,394
1926		6,508,908
1927		6,936,780
1928		7,334,179
1929		7,147,250
1930		5,755,911
1931		4,564,290
1932		4,870,030
1933		4,714,784
1934		4,748,848
1935		5,462,973
1936		5,696,375
1937		5,551,682
1938		5,230,025
1939		5,518,105

PARTICULARS OF WORK DONE IN SHALE MINES IN THE PROVINCE DURING 1939

Output of shale (in tons) used for making bricks	27,236
Number of shifts worked	8,693
Average number of men employed	68
Explosives used (pounds), 40% Dynamite	3,525
Number of shots fired, using fuse	1,500
Total number of bricks made	8,194,685
Total number of bricks put to stock	121,153
Total number of bricks lifted from stock	190,482
Bricks sold for use in:	
Alberta	3,982,876
British Columbia	1,497,668
Saskatchewan	1,436,048
Manitoba	1,160,922
Ontario	186,100
Total	8,263,614
Hollow tile made (tons)	2,649
Hollow tile put to stock (tons)	112
Hollow tile sold	2,537

PARTICULARS OF WORK DONE BY FARMERS STRIPPING COAL UNDER DOMESTIC PERMIT

Tonnage	341
Number of days worked during the year	72
Number of men employed during the year	48
Total number of shifts worked	118
Total number of permits issued	16

The above coal was stripped for domestic use only and not for sale.

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 TO 1939 INCLUSIVE

Year	Domestic	Domestic and Bituminous	Sub-bituminous	Bituminous	Anthracite	Coal used in Coke production	Briquettes	Coke
1901*	331,907	331,907	.....	.....	14,742	16,587	.....	.....
1902*	494,087	494,087	.....	.....	5,185	5,185	.....	.....
1903*	617,734	617,734	.....	.....	23,363	23,363	.....	.....
1904*	759,568	759,568	.....	.....	43,653	43,653	.....	.....
1905*	972,636	972,636	.....	.....	235,597	235,597	71,292	46,640
1906	602,780	.....	.....	.....	103,930	112,887	69,844	73,782
1907	639,335	.....	.....	.....	256,115	256,115	49,585	49,585
1908	584,334	584,334	.....	.....	249,095	249,095	36,261	36,261
1909	763,673	763,673	.....	.....	1,001,1571	1,001,1571	128,397	128,397
1910	878,011	878,011	.....	.....	213,257	213,257	89,785	89,785
1911	984,700	984,700	.....	.....	1,386,961	1,386,961	148,104	148,104
1912	1,341,389	1,341,389	.....	.....	649,745	649,745	196,249	196,249
1913	1,763,225	1,763,225	.....	.....	1,926,371	1,926,371	80,119	80,119
1914	1,687,401	1,687,401	.....	.....	1,953,367	1,953,367	170,971	170,971
1915	1,682,922	1,682,922	.....	.....	1,626,237	1,626,237	125,732	125,732
1916	2,172,801	2,172,801	.....	.....	2,335,259	2,335,259	140,544	140,544
1917	2,537,829	2,537,829	.....	.....	2,206,868	2,206,868	118,717	118,717
1918	3,035,061	3,035,061	.....	.....	2,982,334	2,982,334	131,225	131,225
1919	2,611,009	2,611,009	.....	.....	2,325,787	2,325,787	85,616	85,616
1920	3,359,339	3,359,339	.....	.....	3,419,021	3,419,021	130,594	130,594
1921	2,943,141	2,943,141	.....	.....	96,674	96,674	62,446	62,446
1922	3,086,669	3,086,669	.....	.....	2,214,273	2,214,273	33,663	33,663
1923	3,161,741	3,161,741	.....	.....	245,313	245,313	39,638	39,638
1924	3,096,660	3,096,660	.....	.....	1,521,288	1,521,288	.....	.....
1925	3,156,359	3,156,359	.....	.....	2,145,200	2,145,200	791	791
1926	3,160,029	3,160,029	.....	.....	2,958,508	2,958,508	11,381	11,381
1927	3,357,171	3,357,171	.....	.....	490,371	490,371	287	287
1928	3,378,200	3,378,200	.....	.....	2,984,419	2,984,419	20,649	20,649
1929	3,385,749	3,385,749	.....	.....	3,215,481	3,215,481	24,768	24,768
1930	2,874,090	2,874,090	.....	.....	668,108	668,108	28,167	28,167
1931	2,246,544	2,246,544	.....	.....	603,331	603,331	24,111	24,111
1932	2,576,831	2,576,831	.....	.....	471,389	471,389	15,102	15,102
1933	2,494,047	2,494,047	.....	.....	559,473	559,473	4,591	4,591
1934	2,295,566	2,295,566	.....	.....	554,141	554,141	75,275	75,275
1935	2,647,912	2,647,912	.....	.....	566,436	566,436	91,745	91,745
1936	2,841,231	2,841,231	.....	.....	566,486	566,486	14,935	14,935
1937	2,631,150	2,631,150	.....	.....	506,529	506,529	15,906	15,906
1938	2,453,263	2,453,263	.....	.....	488,912	488,912	18,812	18,812
1939	2,449,199	2,449,199	.....	.....	512,105	512,105	97,353	97,353
							99,537	99,537
							27,044	27,044
							103,498	103,498
							39,239	39,239
							46,510	46,510
							103,191	103,191
							68,913	68,913

*Includes output from Alberta and Saskatchewan. Previous to 1922 sub-bituminous coal was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the province lasted for a period of three months. During the year 1911 a strike affecting all the larger mines in the province, lasted for a period of eight months. During the year 1917 a strike affecting all the larger mines in the province, lasted for a period of three months. During the year 1919 a strike affecting all the larger mines in the province, lasted for a period of three months. During the year 1922 a strike affecting all the larger mines in the province, lasted for a period of five months. During the year 1924 a strike affecting all the larger mines in the province, lasted for a period of six and one-half months.

Total output of COAL, COKE and BRICKETTES disposed of during 1939:

Total output of COAL, COKE and BRICKETTES disposed of during 1938:

Domestic	1,184,120	65,303	936,566	180,788	39,072	10,100	2,415,949	29,303	560	15,225	19,498	25,252	2,020	2,453,263
Sub-Butuminous	45,667	36,640	17,339	70,743	16,301	83	254,787	441,560	26,125	4,560	3,521	16,615	3,364	488,912
Bituminous	49,145	136,492	162,132	18,738		22,407,1,617,065	2,063,281	81,405	1,120	39,302	103,498	25,913	60,739	2,287,840
Total	1,278,932	238,435	1,011,207	413,663	74,111	83,32,507	1,871,852	4,920,790	136,833	6,240	39,302	103,498	44,659	36,173,55,335
Briquettes				2,933	3,817	2,539	7,688	2,385		19,367	39,239		212	212
Coke				52	68,640					68,692				

THE MINES BRANCH

How total output of DOMESTIC COAL from the Province was disposed of by Areas during 1939.

	Sold for Consumption in					Used by Collieery R.R.	Total Sales	Used under Collieery Boilers	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output Year to stock and waste but not lifted for use or stocking or waste
	Alberta	British Columbia	Manitoba	Saskatchewan	Ontario								
Ardley	13,151	.....	1,735	.....	.....	14,886	680	.....	156	38	40	175	15,682
Big Valley	2,428	.....	632	.....	.....	2,428	104	.....	.....	.....	.....	.....	2,441
Brooks	10,244	.....	4,515	1,010	63	10,876	1,030	54,330	546	554	797	1,170	10,980
Camrose	48,942	475	17,023	2,487	376	155	79,001	298	939	320	279	246	54,633
Carson	58,485	.....	.....	.....	.....	35,886	92	.....	.....	.....	.....	.....	80,033
Castor	35,886	.....	.....	.....	.....	15,005	1,083	464,695	6,375	268	8,593	1,157	38,109
Champion	15,006	36,605	736,730	152,305	44,626	1,868	1,199,948	10,989	12,618	1,624	1,945	1,223,338	15,273
Drumheller	227,814	157	7,782	3,169	361	.....	.....	.....	1,624	1,157	3,275	470,576	26,091
Edmonton	453,226	26,091	.....	.....	.....	26,091	.....	.....	.....	.....	.....	.....	26,091
Gleichen	2,972	128,678	10,323	1,927	5,478	2,972	14	.....	40	10	33	.....	3,003
Harcourt	158,841	22,465	.....	.....	.....	326,818	2769	.....	2,695	626	2,535	957	329,416
Lethbridge	431	.....	.....	.....	.....	431	.....	.....	.....	.....	.....	.....	431
Magrath	5,520	.....	.....	.....	70	5,590	.....	.....	.....	.....	371	.....	5,961
Milk River	202	.....	.....	.....	.....	202	.....	.....	.....	.....	.....	.....	202
Pakani	1,438	.....	.....	.....	.....	1,438	.....	.....	.....	.....	.....	.....	1,438
Pakowski	33,403	62	3,854	39	.....	37,358	1,508	.....	.....	.....	25	.....	38,891
Pembina	8,194	16,119	1,164	.....	.....	25,347	.....	617	.....	.....	.....	.....	26,094
Redcliff	966	.....	.....	.....	.....	965	.....	.....	10	.....	2	.....	974
Rochester	85	.....	.....	.....	.....	85	.....	.....	.....	10	.....	.....	95
Sexsmith	16,352	18,342	90	.....	.....	34,784	90	.....	.....	1,835	.....	.....	36,709
Sheerness	10,547	.....	781	.....	.....	11,328	236	.....	.....	4	1,163	.....	12,731
Taber	13,357	31,394	1,502	.....	.....	46,253	1,300	.....	.....	951	.....	.....	48,504
Tofield	3,201	.....	.....	.....	.....	3,201	.....	.....	.....	23	.....	.....	3,224
Wetaskiwin	198	3,537	.....	.....	.....	198	.....	3,337	102	17	.....	14	215
No Area .....	.....	.....	.....	.....	.....	.....	.....	.....	98	402	14	30	4,065
Total	59,764	967,555	172,089	46,453	7,571	2,403,984	25,587	617	18,947	18,428	14,016	4,348	2,449,199

How the total output of SUB-BITUMINOUS COAL was disposed of during 1939:

THE MINES BRANCH

How the total output of COAL from the Province was disposed of by months during 1939:

How the total output of DOMESTIC COAL was dispensed of by months during 1939:

	Sold for Consumption in						Used under Colliery Boilers	Used by Colliery R.R.	Put to Stock	Put to Waste	Littered from Stock	Littered from Waste	Total output for each month put to stock and waste but not littered from stock or waste
	Alberta	Saskat-	Manitoba	Ontario	Quebec	British Columbia							
January	128,985	4,687	106,955	24,697	6,810	1,013	273,047	3,270	52	1,718	2,004	1,750	278,341
February	144,454	6,070	123,979	27,135	5,339	1,092	310,059	3,238	80	1,338	1,545	325	314,371
March	93,336	2,772	73,521	7,128	2,451	668	179,856	2,631	47	264	1,843	610	181,851
April	43,997	1,417	24,632	3,190	652	—	73,886	1,508	9	347	1,445	1756	74,034
May	30,069	1,107	13,882	1,479	327	—	46,864	1,248	6	248	1,045	1,634	48,438
June	29,949	615	14,673	1,600	106	—	46,943	1,359	185	279	1,393	272	47,101
July	29,508	1,286	15,768	1,599	717	32	48,910	1,357	18	432	1,945	432	48,910
August	53,500	3,957	42,993	4,840	806	344	105,540	1,481	48	1,297	266	466	108,166
September	108,884	10,985	112,353	18,465	6,216	1,442	258,925	1,898	72	888	2,221	420	262,694
October	189,168	11,318	203,276	34,604	7,255	1,080	446,701	2,580	114	5,511	4,060	300	458,641
November	170,310	10,077	159,525	30,715	10,882	1,371	382,860	2,505	117	4,794	1,887	344	391,759
December	128,362	5,493	75,028	16,637	4,942	829	231,291	2,512	54	1,926	1,517	2,437	234,863
Total	1,150,522	59,764	967,585	172,089	46,453	7,571	2,403,984	25,587	617	18,947	18,428	14,016	4,348
Percentage of Total Sales	47.82	2.50	40.25	7.17	1.94	.32							

THE MINES BRANCH

Now the total output of SUB-BITUMINOUS COAL was disposed of by months during 1939:

Now the total output of BITUMINOUS COAL was disposed of by months during 1939:

THE MINES BRANCH

Amount of COAL sold during the years 1915 to 1939 (inclusive) for consumption in:

Year	Alberta	British Columbia	Saskat-chewan	Manitoba	Ontario	North-West Territories	Quebec	United States	To Railroads	Total
1915	2,129,130	54,860	695,898	64,816	.....	.....	.....	25,047	2,969,751	.....
1916	2,866,670	86,413	1,007,765	97,265	.....	.....	.....	61,092	4,119,205	.....
1917	2,813,413	76,397	1,139,771	249,872	.....	.....	.....	93,081	4,372,534	.....
1918	3,440,154	101,183	1,372,339	511,168	.....	.....	.....	5,558,855	5,558,855	.....
1919	2,991,110	95,461	1,115,329	314,290	.....	.....	.....	133,276	133,276	.....
1920	1,647,202	128,850	1,310,146	600,962	13,911	.....	.....	121,212	4,637,710	.....
1921	1,415,861	116,089	1,294,441	495,388	9,898	.....	.....	152,610	6,371,266	.....
1922	1,443,942	107,920	1,371,249	520,518	21,573	.....	.....	105,514	5,488,704	2,023,204
1923	1,382,788	108,326	1,223,554	555,649	52,334	.....	.....	105,514	5,647,109	2,076,291
1924	1,451,327	114,186	1,189,788	510,407	16,525	.....	.....	83,557	6,514,219	3,110,121
1925	1,440,032	117,037	1,297,653	509,655	28,831	.....	.....	39,142	4,914,949	2,158,716
1926	1,325,290	127,858	1,296,681	591,267	74,559	.....	.....	40,907	5,573,431	2,158,716
1927	1,508,089	187,028	1,427,904	612,542	22,680	.....	.....	221	48,216	2,706,440
1928	1,409,475	262,198	1,511,141	605,125	44,265	.....	.....	52,160	45,160	2,759,765
1929	1,446,555	236,840	1,455,213	588,647	55,647	.....	.....	51,625	3,054,239	6,938,708
1930	1,254,382	227,385	1,221,542	541,537	29,784	.....	.....	33	6,758,075	2,923,827
1931	1,020,694	171,610	905,574	442,761	27,036	.....	.....	32	44,291	2,126,237
1932	1,134,311	136,188	1,097,382	497,006	20,583	.....	.....	100	30,434	4,266,660
1933	1,123,357	120,911	1,052,910	449,681	39,437	.....	.....	135	27,366	4,532,892
1934	1,087,898	127,638	986,539	391,132	55,947	.....	.....	32	18,449	4,304,838
1935	1,246,959	221,758	1,120,516	455,813	64,659	.....	.....	31	13,739	1,687,850
1936	1,356,690	244,928	1,238,730	450,740	65,886	.....	.....	.....	24,712	5,075,272
1937	1,326,054	269,023	1,085,812	437,954	62,521	.....	.....	82	27,397	1,969,569
1938	1,278,932	238,435	1,011,207	413,663	74,111	.....	.....	83	41,328	5,353,940
1939	1,241,618	239,227	1,044,367	409,046	90,206	.....	.....	.....	32,507	5,251,163
							.....	.....	33,139	5,167,287
										2,109,684

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

Coal produced by years from 1935 to 1939 inclusive

DOMESTIC COAL FIELD

Areas	1935	1936	1937	1938	1939
Ardley	25,565	29,216	23,990	21,420	15,682
Big Valley	3,494	2,918	2,514	2,069	2,441
Brooks	8,040	9,668	9,152	9,665	10,980
Camrose	57,466	65,331	57,235	52,662	54,693
Carbon	95,424	108,369	104,385	92,846	80,033
Castor	34,920	45,307	41,379	39,737	38,109
Champion	20,836	22,160	17,941	16,142	15,273
Drumheller	1,261,239	1,439,905	1,289,971	1,168,348	1,223,338
Edmonton	493,263	543,014	539,096	515,103	470,576
Gleichen	9,165	9,886	11,227	25,239	26,091
Halcourt	3,738	3,479	4,569	3,355	3,003
Lethbridge	349,676	351,864	349,881	342,113	329,416
Magrath	1,282	856	995	541	431
Milk River	4,485	5,261	4,312	3,701	5,961
Pakana	—	823	209	276	202
Pakowki	2,781	3,660	1,267	1,359	1,438
Pembina	72,149	53,948	33,398	30,267	38,891
Redcliff	34,149	35,971	29,086	27,382	26,094
Rochester	1,467	2,256	478	729	974
Sexsmith	—	44	43	80	95
Sheerness	91,024	47,305	39,360	35,939	36,709
Taber	14,669	12,588	14,615	12,274	12,731
Tofield	59,426	42,845	48,315	44,213	48,504
Wetaskiwin	728	1,791	2,222	2,349	3,224
Whitecourt	67	153	300	217	215
No. Area	2,859	2,913	5,210	5,237	4,095
Total	2,647,912	2,841,231	2,631,150	2,453,263	2,449,199

SUB-BITUMINOUS COAL FIELD

Coalspur	413,486	388,766	350,594	351,427	360,436
Morley	—	123	769	61	107
Pekisko	4,298	5,005	4,928	5,080	5,385
Pincher	1,405	2,095	1,541	1,413	1,374
Prairie Creek	110,192	127,553	106,803	91,189	104,067
Saunders	37,055	42,944	41,894	39,742	40,736
Total	566,436	566,486	506,529	488,912	512,105

BITUMINOUS COAL FIELD

Cascade	152,925	166,665	175,989	170,039	194,441
Crowsnest	1,297,404	1,310,487	1,326,450	1,275,000	1,400,802
Highwood	—	—	—	—	10
Mountain Park	651,268	655,139	764,370	688,449	810,442
Nordegg	147,028	156,367	147,194	154,358	151,106
Total	2,248,625	2,288,658	2,414,003	2,287,850	2,556,801

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Total output of DOMESTIC COAL by areas during each month:

Areas		Jan	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley		2,516	1,237	727	585	405	411	650	1,500	1,336	2,311	2,321	474	15,682
Big Valley		301	151	52	16	81	121	64	165	189	540	540	474	2,641
Brooks		682	823	484	180	110	116	150	394	1,340	3,463	833	604	16,380
Camrose		7,718	7,599	5,266	1,467	1,012	920	1,140	1,937	7,866	12,247	6,046	6,047	54,693
Carbon		6,860	7,910	6,605	3,509	1,790	2,210	1,237	2,973	7,905	12,514	10,272	80,072	80,333
Castor		3,729	4,184	2,057	510	266	296	384	705	1,996	8,030	9,666	6,339	38,109
Champions		1,232	1,370	1,025	451	315	451	404	991	2,071	2,947	2,683	1,274	15,273
Drumheller		145,219	167,595	85,428	26,542	14,969	10,707	11,403	46,187	142,294	250,899	208,587	113,208	1,225,338
Edmonton		62,263	67,155	44,226	22,107	15,546	11,801	11,083	17,131	35,154	58,914	51,350	47,076	301,576
Eiechen		2,068	2,826	1,616	663	408	495	132	1,338	2,779	4,343	5,696	3,547	26,091
Ethelbridge		28,038	35,135	18,568	4,452	2	3	13	196	60	110	186	530	3,003
Magrath		76	50	33	20	5,946	8,935	9,097	27,208	49,424	62,967	53,580	23,848	329,416
Milk River		320	194	155	77	85	81	88	164	1,175	53	115	70	431
Pakowski		24	33	16	3	24	24	50	50	210	511	318	442	1,438
Pembina		3,007	3,694	4,110	2,928	4,049	3,447	2,405	2,405	3,667	3,196	2,758	3,196	38,891
Peculiar		2,417	3,150	2,405	669	479	624	892	1,128	2,412	5,280	4,441	2,197	26,094
Rocky Mountain House		234	169	58	....	....	....	1	7	105	181	219	181	974
Saskatchewan		2,814	2,583	1,629	1,313	3,112	5,270	1,727	1,625	5,620	7,307	3,112	3,112	36,709
Tabor		979	1,092	552	273	274	101	289	445	2,239	3,374	2,100	923	12,731
Whitecourt		4,564	4,107	3,621	2,301	2,684	2,748	2,246	3,042	3,328	5,941	4,088	4,504	32,224
Wetaskiwin		457	632	383	83	29	34	30	63	92	347	358	37	215
No Area		62	23	488	811	488	....	....	....	12	412	647	646	4,093
Total		278,341	314,371	181,851	74,034	48,438	47,101	48,910	103,166	262,694	458,641	391,789	234,863	2,449,199

Total output of SUB-BITUMINOUS COAL by areas during each month:

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Total output of BITUMINOUS COAL by areas during each month:

Cascade	15,759	19,102	14,366	13,109	13,077	12,491	13,632	16,562	14,804	20,809	21,258	19,472	194,441
Crowsnest	97,999	104,636	118,188	98,146	108,937	111,204	118,291	173,236	103,180	121,905	114,426	130,654	1,400,802
Highwood													
Mountain Park	60,762	67,488	64,957	49,516	57,804	54,532	62,206	69,758	65,265	83,120	90,238	84,816	810,442
Nordegg	11,931	10,645	11,242	8,593	10,207	6,314	8,091	11,439	18,970	20,001	18,951	14,692	151,106
Total	186,431	201,871	208,753	169,364	190,025	184,541	202,220	271,045	202,219	245,335	244,853	249,644	2,556,801

Total output of COAL, COKE and BRIQUETTES during the year:

Coal	516,132	566,405	436,580	276,733	275,129	248,349	260,371	410,558	517,927	776,014	696,306	537,601	5,518,105
Coke	6,653	5,556	6,156	5,672	6,461	5,526	5,501	5,094	5,242	5,803	5,532	5,687	68,913
Briquettes	4,460	5,307	3,986	1,471	1,855	1,575	1,637	2,371	4,416	6,328	7,816	5,936	46,510

Total Sales of SUB-BITUMINOUS COAL for consumption by Railroad Companies:

Coalspur	15,775	14,553	21,806	19,819	22,557	7,824	97	12,123	21,262	22,845	19,430	17,981	196,082
Prairie Creek	3,134	6,458	7,245	5,836	6,293	4,933	6,700	6,622	6,634	6,660	6,918	5,305	72,738
Total	18,909	21,011	29,051	25,655	28,860	12,757	6,797	18,745	27,896	29,505	26,348	23,286	268,820

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

Cascade	7,482	9,547	8,337	7,451	9,304	8,877	9,859	12,283	7,883	8,194	6,670	9,686	105,573
Crowsnest	60,060	64,422	78,468	68,182	79,279	83,076	98,158	144,556	69,974	70,044	68,890	86,890	973,085
Mountain Park	44,584	49,454	48,023	37,640	46,159	43,050	50,540	51,565	64,726	73,024	65,871	633,569	
Nordegg	9,740	8,539	9,244	7,139	8,755	5,222	6,781	10,207	17,048	17,211	16,153	12,568	128,637
Total	121,866	131,962	144,072	120,412	143,527	140,225	166,338	225,959	146,470	159,127	165,391	175,015	1,840,864
Grand Total	140,775	152,973	173,123	146,067	172,387	152,982	173,135	244,704	174,366	188,632	192,239	198,301	2,109,684

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Total amount of Domestic Coal disposed of by areas during each month for consumption in Alberta:

Areas	LUMP COAL												Total
	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Ardley	200	325	174	5	49	3	37	165	320	401	387	401	2,066
Big Valley	106	106	25	15	10	12	40	509	280	1,138	802	1,138	9,982
Brooks	539	729	460	175	102	110	142	383	1,324	3,098	2,118	2,817	19,197
Camrose	3,089	3,019	1,599	215	277	239	329	1,347	3,649	2,075	1,417	3,197	20,732
Carbon	2,234	2,707	1,376	346	224	391	292	2,114	3,357	3,855	2,114	2,680	8,944
Castor	827	867	409	78	25	46	41	397	1,690	1,764	1,690	1,764	11,876
Champion	1,056	1,115	758	421	226	323	281	761	1,591	2,238	2,119	1,977	10,158
Drumheller	10,449	13,480	6,211	829	719	805	572	4,840	12,729	21,308	17,378	12,268	103,588
Edmonton	15,286	17,406	8,461	2,651	1,150	493	494	1,038	7,912	21,065	15,551	11,368	103,606
Gleichen	562	899	477	181	66	118	86	162	733	1,039	1,415	702	6,437
Halcourt	264	122	280	2	55	16	78	128	349	371	128	1,665	73,072
Lethbridge	6,706	8,151	4,874	2,083	1,137	1,860	2,116	5,118	10,732	14,329	10,463	5,503	50,35
Magrath	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79
Mill River	72	71	34	18	30	36	46	14	30	212	105	212	793
Pakowski	12	12	8	3	5	4	14	93	254	254	442	273	405
Pembina	370	566	333	83	1	32	1	239	1	239	1	239	377
Redcliff	381	504	408	15	2	52	52	168	717	1,241	1,149	1,149	5,130
Rochester	112	84	38	.....	.....	.....	.....	3	3	41	116	116	474
Sexsmith	164	118	21	15	13	16	15	56	28	303	4	7	17
Sheerness	458	509	375	164	183	129	115	179	1,482	2,316	1,028	581	1,523
Taber	980	941	647	219	132	144	126	183	338	1,630	1,222	779	7,519
Wetaskiwin	82	128	80	10	.....	.....	5	5	30	142	142	142	510
No Area	410	402	194	.....	.....	.....	.....	167	256	303	303	303	1,732
Total	44,207	52,259	27,301	7,559	4,322	4,775	4,706	15,145	42,555	77,779	65,111	42,824	388,543

	MINE-RUN COAL												
	568	1,157	385	19	10	7	4	5	301	1,088	1,069	1,385	5,998
Ardley	244	1,182	85	24	15	15	10	50	100	138	190	180	1,233
Big Valley													
Brooks	308	184	51		67			420	143	445	338	316	2,272
Camrose													
Carbon	1,188	1,004	530	176	83	126	88	183	648	1,043	1,997	1,975	9,041
Castor	2,681	3,069	1,443	326	213	212	326	546	1,404	5,929	6,337	4,114	26,540
Champion													
Drumheller	533	485	350	382	33	40	411	55	1,143	320	143	72	984
Edmonton	12,202	13,636	8,398	6,689	142	283	221	826	920	690	1,124	1,055	7,011
Gleichen	1,372	1,719	949	5,156	3,943	4,539	6,033	9,101	14,034	11,633	11,885	10,7249	
Halcourt	171	1,199	164	13	3	13	164	1,094	1,605	2,601	3,202	2,259	16,128
Lethbridge													
Magrath	1,442	1,425	1,318	1,099	1,189	1,188	1,430	1,368	1,683	1,783	1,907	1,564	17,396
Milk River	76	50	33	20	21								294
Pakan	304	114	78	41	37	44	49	106	956	1,966	770	237	4,702
Pakowki	13	16	63	63	8								174
Pembina	52	66	189	65	35	57	20	36	117	257	318	145	1,033
Redcliff	380	329	425	95	106	323	197	73	182	826	32	62	1,042
Rochester	63	39				97	46						2,486
Sexsmith													
Sheerness	1,791	790	886	669	311	112	307	466	1,156	2,398	4,518	1,063	14,467
Taber	139	180	67	48	32	26	111	140	354	388	377	133	1,995
Tofield	623	671	379	214	130	200	211	84	281	872	727	835	5,227
Wetaskiwin	73	156	147	10	14	34	30	32	65	97	102	62	822
Whitecourt	45	22	9	52									164
No Area	95												174
Total	24,429	25,619	15,967	10,314	7,860	6,892	8,184	11,449	19,318	34,955	35,124	27,754	227,865

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Areas	Jan.	Feb.	Mar.	April	May	June	July	NUT COAL					Total	
								Aug.	Sept.	Oct.	Nov.	Dec.		
Ardley	251	383	198	72	80	51	50	78	247	39	541	472	2,462	
Big Valley	12	9	9	2	.....	.....	.....	6	10	9	10	7	57
Brooks	2,024	1,895	1,652	693	399	454	520	486	2,277	2,347	2,182	2,207	187	
Camrose	1,874	1,882	1,564	1,480	498	627	483	1,255	2,429	2,896	3,507	2,624	16,136	
Carbon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21,119
Castor	143	43	14	152	76	48	66	73	163	273	322	138	401	
Champion	149	230	4,155	2,109	819	1,157	990	2,566	5,301	8,177	8,327	4,166	2,145	
Drumheller	5,517	5,867	20,361	9,242	5,693	4,702	3,457	5,393	10,081	20,228	16,501	16,301	49,151	
Gleichen	18,318	211	190	36	23	22	19	82	441	703	1,079	586	146,588	
Halcourt	134	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,526
Lethbridge	4	.....	4	.....	.....	.....	.....	16	8	4	4	4	49
Magrath	1,951	2,093	1,808	1,011	754	990	869	2,319	3,572	4,043	2,927	1,712	24,049	
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
Redcliff	1,013	1,528	2,055	1,775	1,439	2,265	1,476	1,407	1,171	1,039	715	1,172	17,105	
Rochester	38	23	11	.....	.....	.....	.....	.....	4	49	44	51	38
Sexsmith	28	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	5	210
Taber	.....	87	106	46	32	24	14	15	33	142	210	85	14
Tofield	212	111	86	.....	.....	.....	.....	.....	10	110	156	85	1,031
Wetaskiwin	258	322	180	60	15	.....	.....	25	20	200	212	466	1,745
No Area	417	276	130	.....	.....	.....	.....	.....	158	210	239	239	1,430
Sheerness	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24	.....
Total	32,356	35,353	28,535	16,588	9,792	10,348	7,968	13,812	24,988	40,777	37,251	30,485	288,253

	SLACK COAL										LUMP COAL									
Ardley	328	272	331	284	230	261	230	263	274	106	43	3	2,625							
Brooks	1	13	17	1	1	1	1	1	2	7	17	12								
Camrose	1,398	1,794	1,921	320	141	305	255	303	1,061	1,295	1,467	1,077	11,337							
Carbon	1,110	1,012	680	431	276	306	68	286	694	962	930	838	7,593							
Castor																				
Drumheller	8,383	9,854	5,506	2,851	1,613	2,220	2,628	3,372	6,707	8,094	9,809	9,027	70,064							
Edmonton	13,825	13,158	10,084	3,690	3,317	2,361	2,391	3,942	6,234	14,878	11,809	10,994	95,783							
Halcourt	5	1																		
Lethbridge	1,958	4,008	1,987	961	1,122	1,123	1,568	4,030	6,077	8,853	7,433	4,210	44,330							
Milk River																				
Pakon	11	17																		
Pembina	807	768	899	993	1,387	1,357	1,505	895	911	1,171	1,043	803	12,539							
Redcliff	34	26	8	1	1	4	4	1	61	199	163	42	540							
Rochester	31	23	9																	
Sheerness				223																
Taber																				
Tofield																				
Wetaskiwin	44	26	6	3																
Whitecourt		1	14																	
No Area	58	28	26																	
Sexsmith																				
Total	27,993	31,223	21,533	9,536	8,095	7,934	8,650	13,094	22,023	35,657	32,324	27,299	245,861							

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

	LUMP COAL				
Coalspur	1,045	1,623	1,090	62	316
Petisko	35	20	23	8	6
Pincher	30	41	23	1	69
Prairie Creek	517	249	837	28	2
Saunders	683	131	837	5	108
Total	1,758	2,616	1,973	71	391
	1,758	2,616	1,973	71	391
	43	286	1,718	2,879	2,165
					1,596
					15,694

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Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
Coalspur	215	178	155	67	72	50	55	68	80	104	82	35	1,126	
Morley	38	24	529	161	59	21	193	481	438	423	752	495	4,424	
Petisko	392	480	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
Pincher Creek	63	95	35	29	23	18	9	6	37	53	34	43	445	
Prairie Creek	55	111	58	5	8	3	12	97	338	94	30	811	811	
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	763	888	771	262	162	62	252	554	640	894	984	635	6,923	
NUT COAL														
Coalspur	1,035	961	336	115	155	205	37	215	807	1,184	1,247	807	7,104	
Petisko	114	86	39	13	6	4	3	14	42	39	147	78	39	
Pincher Creek	43	46	37	13	10	10	10	7	37	107	105	105	514	
Prairie Creek	263	208	249	.....	.....	.....	.....	42	309	519	241	86	1,917
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	1,455	1,301	661	128	161	219	50	278	1,195	2,013	1,671	1,076	10,208	
SLACK COAL														
Coalspur	354	540	214	9	99	124	494	826	203	407	407	3,261	3,261	
Morley	20	26	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	55
Petisko	408	506	47	.....	.....	.....	.....	46	245	667	529	495	2,943
Pincher Creek	.....	.....	.....	.....	.....	.....	.....	27	70	.....	.....	.....	97
Prairie Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	782	1,072	270	99	170	766	1,563	732	902	6,356

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL									
Cascade	169	327	147	48	30	26	11	20	165
Crowsnest	444	444	304	123	92	116	51	268	597
Mountain Park	196	167	112	77	81	55	44	93	150
Total	508	508	304	123	92	116	51	268	597
	105	105	105	105	105	105	105	105	105
MINE-RUN COAL									
Highwood	2,167	2,024	1,615	815	5	56	60	132	120
Cascade	1,390	385	337	171	489	775	420	1,358	2,114
Crowsnest	210	264	91	123	151	254	224	207	292
Mountain Park						130	130	72	362
Nordegg								59	90
Total	3,767	2,673	2,043	1,109	899	1,171	830	1,523	1,831
								2,686	2,746
NUT COAL									
Nordegg	153	163	148	87	79	70	107	61	110
Cascade	352	507	341	163	111	204	165	195	526
Crowsnest							46	46	805
Mountain Park									30
Total	505	670	489	250	190	274	318	256	636
								962	1,263
SLACK COAL									
Cascade	195	397	1,396	1,276	970	852	652	788	1,160
Crowsnest	30	551	415	107	111	241	130	1,324	1,129
Mountain Park			33	31	1		33		85
Total	225	551	845	1,734	1,388	1,211	982	2,009	982
								2,379	2,333
								216	216
								14,355	14,355

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Total amount of Domestic Coal disposed of by Areas during each month for consumption in British Columbia:

LUMP COAL		MINE-RUN COAL		NUT COAL		SLACK COAL							
Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Carbon	35	2,198	1,047	230	114	105	250	1,395	40	158	81	2,480	314
Drumheller	33	.....	.....	.....	.....	.....	.....	.....	4,296	4,757	3,795	2,480	22,526
Edmonton	1,859	.....	.....	.....	.....	.....	.....	.....	32	32	61	31	157
Halcourt	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lethbridge	1,550	802	300	276	289	310	1,629	3,311	24	3,933	3,172	1,419	18,381
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
Total	3,249	3,816	1,849	530	390	394	560	3,024	7,671	8,880	7,109	3,930	41,402
Drumheller		.....		.....		.....		.....		.....		74	
Carbon	1,189	1,866	618	770	619	127	602	571	40	121	1,694	2,138	1,262
Drumheller	375	294	117	64	94	124	347	906	2,225	1,694	1,161	13,681	13,681
Edmonton	219	30	.....	.....	.....	.....	.....	517	.....	.....	.....	.....	.....
Lethbridge	.....	.....	.....	.....	.....	.....	.....	726	.....	.....	.....	301	4,084
Pembina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
Total	1,438	2,241	912	887	683	221	726	918	3,179	2,332	2,864	1,563	17,964

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL									
	Coalspur	Prairie Creek	Saunders	Total	258	29	146	48	1,111
Coalspur	1,754	1,555	267	3,021	82	31	31	16	1,124
Prairie Creek	"	"	"	"	"	"	"	"	"
Saunders	"	"	"	"	"	"	"	"	"
Total	1,754	1,555	267	3,021	82	31	31	16	1,124
MINE-RUN COAL									
	Coalspur	Prairie Creek	Saunders	Total	35	33	108	32	204
Coalspur	46	"	"	46	35	33	108	32	204
Prairie Creek	"	"	"	"	"	"	"	"	"
Saunders	"	"	"	"	"	"	"	"	"
Total	46	35	33	110	35	33	108	32	204
NUT COAL									
	Coalspur	Prairie Creek	Saunders	Total	2,099	2,403	1,313	158	466
Coalspur	2,099	2,403	1,313	2,546	317	317	110	158	466
Prairie Creek	"	"	"	"	"	"	"	"	"
Saunders	"	"	"	"	"	"	"	"	"
Total	2,099	2,403	1,313	2,546	317	317	110	158	466
SLACK COAL									
	Coalspur	Prairie Creek	Saunders	Total	39	1	34	15	33
Coalspur	39	"	"	39	39	1	34	15	33
Prairie Creek	"	"	"	"	"	"	"	"	"
Saunders	"	"	"	"	"	"	"	"	"
Total	39	1	34	39	39	1	34	15	33

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Total amount of Bituminous Coal disposed of by Areas during each month for consumption in British Columbia:

LUMP COAL													
Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade													
Crowsnest													
Total	284	34	21	156	235	178	89	205	522	37	66	50	153
MINE-RUN COAL													
Cascade													
Crowsnest													
Total	177	45	162	205	93	46	434	437	291	124	215	134	552
	222	207	355	93	288	434	437	372	124	262	181	164	2,587
NUT COAL													
Cascade													
Crowsnest													
Total	339	779	575	541	403	377	446	524	757	880	712	607	7,540
SLACK COAL													
Crowsnest													
Total	11,036	11,116	12,742	9,872	10,827	10,347	9,766	7,734	11,233	11,360	10,776	12,758	129,767

Total amount of Domestic Coal disposed of by areas during each month for consumption in Saskatchewan:

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Areas		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total		
Ardley	132	135	65	98	33	101	37	74	166	70	121	763	
Camrose	132	105	100	1,172	196	1,202	1,809	1,077	7,247	21,678	28,001	729	47	1,181	
Carbon	468	1,044	1,172	5,886	5,886	33	202	33	202	429	469	670	325	5,070	
Drumheller	21,633	27,636	20,589	273	233	1,311	446	508	592	2,878	2,878	14,946	14,946	190,696	
Edmonton	374	2,560	2,984	453	106	106	106	127	127	5,620	5,620	1,736	1,736	2,346	
Lethbridge	502	464	31	22	184	104	92	91	78	87	762	980	168	168	28,998
Pembina	3,562	
Redcliff	31	
Sheerness	1,270	
Total	25,873	32,752	23,923	7,247	1,818	2,712	1,924	10,432	27,110	46,496	36,212	17,418	233,917	.....
SLACK COAL															.....
Ardley	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37	
Camrose	313	323	249	205	46	41	126	121	271	503	138	314	314	2,650	
Carbon	13,632	16,058	10,778	6,418	4,606	2,068	3,296	9,714	17,217	15,251	10,410	10,410	10,410	115,026	
Drumheller	44	481	353	456	339	187	128	475	969	466	501	501	501	4,490	
Lethbridge	610	814	602	149	156	154	287	226	339	575	993	989	989	1,189	
Pembina	233	145	145	299	179	99	102	178	138	71	213	217	217	6,174	
Redcliff	212	262	220	175	175	175	1,585	
Sheerness	28	28	28	28	1,610	
Tofield	68	
Edmonton	
Total	14,832	17,719	12,276	7,723	5,423	2,948	4,166	6,923	11,820	19,555	17,096	11,278	11,278	131,789	

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

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Total amount of Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade													
Crowsnest													
Mountain Park													
Total													
MINE-RUN COAL													
Crowsnest	1,185	1,552	722	78	67	112	75	637	793	1,922	828	802	8,706
Mountain Park	303	234	..	..	..	93	35	33	100	250	199	46	1,360
Total	1,488	1,786	722	78	67	205	110	670	893	2,172	1,027	848	10,066
NUT COAL													
Nordegg													
Cascade													
Crowsnest													
Total	1,073	1,263	605	207	115	87	231	358	1,219	1,582	841	784	8,365
SLACK COAL													
Cascade	461	272	230	195	274	45	180	229	484	363	3,265		
Crowsnest	2,718	2,148	4,161	2,599	2,051	1,618	1,407	1,416	2,374	1,593	1,518	1,625	25,228
Mountain Park	63	32	98	193
Total	3,179	2,443	4,391	2,826	2,325	1,663	1,452	1,596	2,603	2,080	2,100	1,988	28,686

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Total amount of Domestic Coal disposed of by areas during each month for consumption in Manitoba:

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Areas		SLACK COAL											
	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Carbon	45	3.231	34	2,232	796	104	420	1,632	1,141	3,112	1,695	45
Drumheller	4,709	3.231	34	2,232	796	.....	104	420	1,632	1,141	3,112	1,695	19,106
Lethbridge	1,259	.....	304	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,563
Total	6,013	3,231	34	2,232	1,100	.....	104	420	1,632	1,141	3,112	1,695	20,714
Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Manitoba:													
LUMP COAL													
Coalspur	3,284	2,931	248	.....	.....	.....	.....	1,812	1,709	3,829	2,885	2,563	19,261
Prairie Creek	595	479	157	.....	.....	.....	67	68	56	236	507	814	3,273
Saunders	899	1,053	.....	.....	.....	.....	793	1,233	1,233	502	502	720	5,548
Total	4,778	4,463	405	.....	.....	.....	67	68	1,868	2,738	5,569	4,201	3,925
MINE-RUN COAL													
Saunders	134	.....	.....	.....	.....	.....	.....	40	232	98	.....	165	669
NUT COAL													
Coalspur	4,791	2,432	3,076	2,355	973	43	62	776	1,532	6,144	4,587	3,656	30,427
Prairie Creek	258	140	31	.....	.....	.....	.....	79	167	224	140	140	1,039
Saunders	393	419	263	.....	.....	.....	.....	146	394	677	275	195	2,762
Total	5,442	2,991	3,370	2,355	973	43	62	932	2,005	6,988	5,086	3,991	34,228

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Manitoba:
BITUMINOUS COAL.

MINE-BIIN COAL

UNIT COAT

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SLACK COAL.

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	893	1,249	755	403	202	223	90	264	479	999	1,296	1,198	8,051
Crownest	1,659	2,915	2,169	1,848	534	163	417	146	998	1,457	1,453	1,201	15,010
Mountain Park	9,766	11,324	10,464	6,924	7,346	8,178	8,137	7,064	9,235	12,827	11,689	12,598	115,552
Total	12,328	15,488	13,388	9,175	8,082	8,564	8,644	7,474	10,712	15,319	14,442	14,997	138,613

Total amount of Domestic Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL.

Camrose	33	..	..	..	..	..	..	..	..	..	..	..	63
Carbon	4,471	2,054	542	101	33	163	569	5,060	5,475	8,564	3,751	43	36,463
Drumheller	33	43	43	43	42	42	554	82	..	96	37	..	161
Edmonton	32	..	..	..	..	..	..	..	..	..	..	..	1,027
Lethbridge	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	5,712	4,537	2,097	585	327	75	717	651	5,060	5,518	8,727	3,751	37,757

MINE-RUN COAL.

Drumheller	31
Total

NUT COAL.

Carbon	87	..	..	..	..	..	..	..	..	..	..	..	333
Drumheller	945	782	334	67	..	..	..	..	..	..	..	..	8,103
Edmonton	66	..	..	..	..	..	..	..	..	..	..	..	200
Total	1,098	782	334	67	..	..	..	..	..	..	..	..	8,636

SLACK COAL

Drumheller 10 19 29

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Ontario

LUMP COAL

Total	2,417	1,751	1,161	64	33	35	426	2,262	3,112	2,782	2,032	16,075
Coalspur Creek	1,093	651	631	33	33	30	142	1,140	1,522	1,314	934	7,493
Prairie Creek	580	323	32				30	543	830	712	422	3,472
Saunders	744	777	498	31		35	254	579	760	676	736	5,110

MINE-BIN COAL

SLACK COAL

Prairie Creek							11	33	23	32	34
Saunders											65
Total							11	33	23	32	99

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Total amount of Bituminous Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	34	89	.....	229	.....	.....	.....	43	274	756	38	1,111	
Crowsnest .....	.....	.....	.....	.....	.....	.....	.....	226	113	84	84	775	
Total	34	89	.....	229	.....	.....	.....	43	500	869	122	1,886	

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	48	.....	.....	47	.....	.....	.....	.....	166	322	37	162	687
Crowsnest .....	.....	.....	.....	47	.....	.....	.....	.....	93	48	...	...	236
Total	48	.....	.....	47	.....	.....	.....	.....	166	415	85	162	923

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	292	81	.....	.....	.....	.....	48	.....	84	85	36	145	253
Crowsnest .....	.....	.....	.....	.....	.....	40	.....	480	622	679	...	...	2,339
Nordberg .....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	
Total	292	81	.....	.....	.....	.....	88	.....	564	708	715	145	2,593

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	882	2,415	2,832	2,063	.....	.....	.....	155	1,387	1,177	763	3,482	
Crowsnest	1,132	.....	.....	.....	196	2,310	2,932	.....	.....	.....	14,782		
Total	1,132	882	2,415	2,832	2,063	.....	.....	351	3,697	4,109	763	18,264	

Total amount of Domestic Coal disposed of by areas during each month for consumption in the United States:

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Total amount of Bituminous Coal disposed of by areas during each month for consumption in the United States:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
													991	
LUMP COAL														
Crowsnest	49	...	...	...	...	...	...	...	...	...	...	...	...	328
MINE-RUN COAL														
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...	277
NUT COAL														
Crowsnest	231	581	452	33	51	...	...	...	...	...	...	...	...	490
SLACK COAL														
Crowsnest	1,008	1,840	1,091	617	587	617	401	788	1,049	2,256	3,152	8,123	...	21,529
Amount of Domestic Coal used under Colliery Boilers by areas during each month:														
Ardley	70	70	50	50	50	50	50	65	80	20	65	60	60	680
Brooks	8	11	7	4	7	5	7	7	9	11	13	12	13	104
Carriose	90	90	80	80	75	75	70	70	90	90	126	134	134	1,030
Carbon	30	40	30	30	15	15	10	8	10	30	40	35	35	298
Castor	14	13	10	10	10	10	10	8	12	14	14	21	21	92
Dunmeller	1,482	1,279	607	483	485	517	702	864	1,057	1,054	979	10,989	10,989	10,989
Edmonton	854	635	421	345	288	288	380	380	501	615	567	599	599	6,375
Halcourt	7	4	3	3	3	3	3	3	3	3	3	3	3	14
Lethbridge	472	274	109	22	30	22	43	120	447	381	401	2,769	2,769	2,769
Pembina	135	123	106	101	104	110	102	106	106	203	107	176	176	1,508
Sheerness	30	20	10	10	10	10	10	10	10	10	10	90	90	90
Taber	18	21	6	5	2	7	50	50	50	50	50	15	15	236
Tofield	50	50	100	150	350	300	300	300	300	300	300	50	50	1,300
No Area	12	12	12	12	12	12	12	12	12	12	12	60	60	102
Total	3,238	2,631	1,508	1,248	1,359	1,357	1,481	1,898	2,580	2,505	2,512	25,587	25,587	25,587

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

Coalspur	1,683	1,760	1,673	972	1,095	880	526	1,581	1,719	1,884	1,775	1,756	17,304
Pekisko	12	12	12	12	12	12	12	12	12	12	12	12	132
Prairie Creek	613	742	613	562	528	528	510	515	632	671	792	837	7,813
Saunders	280	475	37	37	1	1	61	84	233	450	673	588	3,857
Total	3,082	2,989	2,578	1,583	1,636	1,469	1,132	2,341	2,813	3,240	3,167	3,076	29,106

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Cascade	2,032	2,290	1,810	1,757	1,729	1,485	1,980	1,705	1,685	2,165	2,063	2,140	22,841
Crowsnest	2,241	2,347	2,331	1,996	1,719	1,785	1,527	1,531	1,658	2,096	2,018	1,843	23,292
Mountain Park	3,494	4,337	4,395	3,893	3,689	2,568	2,406	2,749	2,826	3,305	3,559	3,807	41,654
Nordegg	507	406	333	209	122	72	62	61	131	247	312	333	2,795
Total	8,274	9,426	9,639	7,855	7,259	5,910	5,975	6,046	6,300	7,813	7,962	8,123	90,582

Amount of Domestic Coal used by Colliery Railroads by areas during each month:

Redcliff	52	80	47	9	6	18	48	48	72	114	117	54	617
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Amount of Sub-Bituminous Coal used by Colliery Railroads by areas during each month:

Coalspur	405	417	418	345	381	220	150	295	375	390	540	450	4,386
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Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Cascade	42	54	45	40	36	30	40	48	42	50	50	57	544
Crowsnest	112	69	72	35	60	62	62	78	70	67	50	8	745
Total	154	123	117	75	96	92	102	126	112	117	100	65	1,279

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Amount of Bituminous Coal used making Briquettes:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	2,750	3,563	1,363	407	525	611	445	1,093	2,422	3,633	4,931	4,110	25,923
Nordegg	1,434	1,436	1,574	996	1,275	890	1,118	1,149	1,732	2,425	2,368	1,534	17,951
Total	4,204	4,999	2,937	1,403	1,800	1,501	1,573	2,242	4,154	6,118	7,299	5,644	43,874

Amount of Bituminous Coal used making Coke:

Crowsnest	9,980	7,872	9,235	9,108	9,091	8,589	7,952	7,641	7,863	8,904	8,343	8,813	103,191

Amount of Domestic Coal Put to Stock by areas during each month:

Ardley	70	....	....	....	....	....	....	50	40	....	....	46	156
Big Valley	60	65	65	66	66	66	66	66	66	66	66	140	150
Canrose	50	45	45	4	4	4	4	4	4	4	4	200	200
Carbon	7	7	7	7	7	7	7	7	7	7	7	7	7
Castor	....	....	....	....	....	....	....	....	....	....	....	....	....
Champion	1,090	632	195	315	85	40	340	1,238	419	4,782	2,655	827	12,618
Drumheller	225	383	6	32	95	59	59	129	129	129	129	129	129
Edmonton	14	14	137	137	137	137	137	137	137	137	137	137	137
Halcourt	278	....	....	....	....	....	....	....	....	....	....	....	....
Lethbridge	....	....	....	....	....	....	....	....	....	....	....	....	....
Pakowki	....	....	....	....	....	....	....	....	....	....	....	....	....
Rochester	....	....	....	....	....	....	....	....	....	....	....	....	....
Taber	4	4	4	4	4	4	4	4	4	4	4	4	4
Tofield	....	....	....	....	....	....	....	....	....	....	....	....	....
No Area	....	....	....	....	....	....	....	....	....	....	....	....	....
Total	1,718	1,338	264	347	151	165	518	1,297	898	5,511	4,794	1,926	18,947

Amount of Sub-Bituminous Coal Put to Stock by areas during each month:

Coalspur	345	280	470										
Petisko	30	36											
Pincher Creek													
Prairie Creek													
Saunders													
Total	375	316	470	39									

Amount of Bituminous Coal Put to Stock by areas during each month:

Cascade	649	254	367	1,256	634	688	651	465	326	324	205	319	479
Crowsnest	781	2,419	1,229	126	987	1,155	215	3,319	1,200	6,387	2,040	311	6,785
Nordegg												1,400	21,884
Highwood												140	266
Total		1,430	2,673	1,596	1,634	1,621	1,843	866	3,784	1,526	6,811	2,900	1,855

Amount of Domestic Coal Put to Waste by areas during each month:

Ardley	5	4	2	1	1	1	1	1	2	5	5	6	38
Big Valley	309	20	18	3	100	1	2	10	51	22	15	15	554
Camrose	30	27	18	3	1	1	2	2	5	24	84	124	320
Carson	157	207	177	52	28	38	13	34	171	351	490	347	2,065
Castor	27	25	13	8	12	9	12	17	17	37	48	35	268
Champion	934	703	412	11	2,000		12	34	1,605	1,930	410	554	8,593
Drumheller	75	75	27	6			12	3	17	855	44	62	1,157
Edmonton													
Gleichen													
Halcourt													
Lethbridge	4	136	106	19	6	12	28	28	61	61	54	6	10
Milk River	16	8	6	2	25	7	3	12	50	170	60	18	626
Pembina	20	5											25
Sexsmith	113	73	69	15	51	189	323	85	57	247	412	6	10
Smearness	113	116	54	23	28	20	41	43	182	272	197	201	1,835
Taper	23	18	849								9	74	1,163
Tofield											20	32	951
Wetaskiwin													23
Whitecourt	17										15	7	17
No Area	87	105	86								58	40	402
Total	2,004	1,526	1,843	145	2,248	279	432	266	2,221	4,060	1,887	1,517	18,428

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Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Morley													10
Coalspur	1,392	1,317	1,232	1,182	1,414	726		864	1,593	1,699	1,264	1,234	13,917
Pekisko		32		22	15	16	10	28	16	40	55	35	349
Pincher Creek		40							117	170	120	49	970
	306	208											
Total	1,738	1,557	1,254	1,197	1,420	736	28	880	1,750	1,909	1,439	1,328	15,246

Amount of Bituminous Coal Put to Waste by areas during each month:

Cascade	15	15						5	12	10	25	15	112
Crowsnest								1,613	2,083	2,740	1,970	2,928	3,192
Total	15	15						1,613	2,083	2,745	1,982	2,938	3,217

Amount of Domestic Coal Lifted from Stock by areas during each month:

Big Valley								20	20	175			175
Ardley													40
Camrose													797
Carbon													279
Drumheller													6,865
Edmonton		50	200	143	140	15	75	10	33	400	280	125	338
Halcourt		1,165	1,132	65	65	66	68	923	40	340			244
Lethbridge		152	565	546	631	500	309	235	93	309			3,275
Castor		196	178	294	43	13	62	20	95			44	20
Rochester												1,604	33
Tofield												1	2,535
No Area												2	1
Total	1,750	1,545	2,180	1,756	1,045	1,393	380	466	420	300	344	2,437	14,016

Amount of Sub-Bituminous Coal Lifted from Stock by areas during each month:

	115	185	280	20	30	24	20	502	402	136	205	99	2,018
Coalspur													
Morley		30										20	70
Pekisko		63										22	160
Pincher Creek													
Saunders						9	4	11	15	247	80		366
Total	178	278	280	20	39	28	31	529	649	216	225	141	2,614

Amount of Bituminous Coal Lifted from Stock by areas during each month:

	582	649	254	367	1,257	634	688	652	465	326	324	860	7,058
Cascade													
Crowsnest		147	1,734	1,644	589	680	7,326	1,988	3,160	175	989	3,420	22,410
Nordegg													
Mountain Park													
Total	1,140	796	1,988	2,011	1,972	1,314	8,014	2,640	3,658	501	1,456	4,419	29,909

Amount of Domestic Coal Lifted from Waste by areas during each month:

	325	610	105	2	109	105	135	925	32	1,945	25		1,170
Camrose													
Carbon													
Drumheller													
Lethbridge													
Tofield													
No Area													
Total	325	610	107	1,034	272	1,945					25	30	4,348

Amount of Sub-Bituminous Coal Lifted from Waste by areas during each month:

Prairie Creek		60	55	40	36	41	150				382		
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Output and Number of Mines Producing in 1939:

Number of men employed in the DOMESTIC FIELD as at December 31, 1939:

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	Number of men employed in the SUB-BITUMINOUS FIELD as at December 31, 1939:											
	BITUMINOUS FIELD											
Coalspur	13	96	20	28	17	17	1	8	1	3	204	11
Morley	1	7							2	3		22
Pekisko	4	3							11	2		
Pincher Creek	12	14	10	48	6	4	5	4	11	13	11	139
Saunders	4	34	12	23	4	9	2	4	2	4	2	3
Total	36	154	42	99	23	25	15	4	13	25	2	18
Cascade	17	95	2	17	92	7	31	2	6	4	15	177
Crowsnest	65	664			15	98	12	22	96	4	99	1,186
Highwood Mountain Park	1	3			35	47	40	13	4	52	5	87
Nordegg	25	336	15		15	8	1	9	10	1	137	2
Total	116	1,183	17	17	127	84	177	28	41	162	10	201
Domestic	326	759	310	1,867	23	347	121	13	115	101	10	268
Sub-Bituminous	36	154	42	99	17	127	84	177	28	41	162	10
Bituminous	116	1,183	17								201	2,163
Total	478	2,096	369	1,983	150	456	313	45	169	288	22	487
											73	248
												710
												141
												87
												66
												54
												94
												112
												594
												2,179
												9,035

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Men employed above and below ground in the DOMESTIC FIELD by areas each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Ardley	60	76	51	25	23	26	23	27	35	62	64	74	46
Big Valley	11	12	10	6	3	4	4	5	6	7	13	17	8
Brooks	13	12	6	5	6	4	4	9	20	25	21	171	12
Camrose	127	125	98	50	52	47	61	68	94	123	131	132	92
Carbon	187	181	162	134	77	77	68	101	129	172	182	178	137
Castor	120	118	91	34	28	19	34	39	39	175	181	192	93
Champion	52	51	46	35	30	32	30	41	55	70	69	55	47
Drumheller	2,415	2,296	1,976	774	536	477	601	1,448	2,116	2,494	2,549	2,533	1,685
Edmonton	1,022	983	740	464	365	363	392	405	586	947	977	953	683
Gleichen	84	84	70	39	33	33	34	52	78	107	125	106	70
Halcourt	26	33	24	7	3	4	14	9	11	16	26	27	17
Lethbridge	662	621	482	356	318	272	319	492	632	748	760	633	525
Magrath	3	3	2	2	2	2	1	5	5	5	4	5	3
Milk River	9	9	8	4	6	9	9	8	8	27	22	13	13
Pakowki	2	2	2	2	2	2	2	2	2	8	8	13	6
Pembina	10	9	9	6	7	8	8	8	8	9	9	8	8
Redcliff	61	61	58	50	45	47	62	45	61	56	46	64	55
Rochester	57	56	54	31	35	17	28	35	50	50	64	61	45
Saxsmith	10	8	3	2	2	2	2	2	2	7	9	8	5
Sheerness	37	37	32	26	25	35	37	34	35	54	2	2	2
Taber	42	39	28	21	24	21	24	28	28	56	59	53	37
Tofield	52	49	44	36	45	54	61	34	32	62	58	62	49
Weiskiwin	19	18	14	7	6	6	8	12	14	18	22	13	13
Whitecourt	2	2	2	1	1	1	4	2	13	23	25	2	2
No Area	32	11	12	1	1	1	1	1	1	1	1	1	16
Total	5,115	4,896	4,028	2,115	1,669	1,557	1,827	2,902	4,142	5,352	5,503	5,266	3,709

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Men employed above and below ground in the SUB-BITUMINOUS FIELD by areas each month:

Coalspur	447	440	296	259	199	163	368	401	432	478	465	362
Morley	3	2	2	2	2	2	2	2	2	3	3	2
Pekisko	15	13	11	9	9	9	13	12	12	14	16	12
Pincher Creek	6	5	5	4	4	4	4	4	6	8	7	5
Prairie	159	147	142	119	127	133	132	160	191	195	199	158
Saunders	136	133	119	42	22	68	70	90	102	124	131	97
Total			766	740	674	472	424	415	384	634	713	769
										829	820	636

Men employed above and below ground in the BITUMINOUS FIELD by areas each month:

Cascade	262	256	255	257	264	261	266	265	260	262	266	261
Crowsnest	1,895	1,898	1,886	1,859	1,865	1,881	1,855	1,868	1,800	1,867	1,808	1,853
Mountain Park	756	773	766	746	774	765	778	835	843	887	921	811
Nordegg	189	191	197	197	192	194	191	199	210	216	220	207
Highwood										6	6	6
Total			3,102	3,118	3,105	3,057	3,092	3,104	3,085	3,168	3,118	3,170
										3,217	2,949	3,111

Men employed above and below ground in the DOMESTIC, SUB-BITUMINOUS and BITUMINOUS FIELDS by areas each month:

Domestic	5,115	4,896	4,028	2,115	1,669	1,557	1,827	2,902	4,142	5,352	5,503	3,709
Sub-Bituminous	"	"	"	2	424	415	634	713	759	829	820	656
Bituminous	"	"	"	452	415	3,057	3,092	3,104	3,168	3,118	3,217	2,949
Total		8,983	8,754	7,807	5,644	5,185	5,076	5,296	6,704	7,973	9,291	7,456

THE MINES BRANCH

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,202,713	7,317	711	5,299	982
1925	5,883,394	8,774	670	6,498	834
1926	6,508,908	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,681	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701
1932	4,867,984	7,837	621	5,772	844
1933	4,714,784	8,042	586	5,937	794
1934	4,748,848	7,863	604	5,809	744
1935	5,462,973	7,800	700	5,644	969
1936	5,696,375	8,110	702	5,940	959
1937	5,551,682	7,836	708	5,806	956
1938	5,230,025	7,411	706	5,427	965
1939	5,518,105	7,456	740	5,517	1,000

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	510	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935—Stp. pit	130,084	96	1,355		
B. Ground	2,517,828	3,927	658	3,059	823
1936—Stp. pit	80,111	107	749		
B. Ground	2,761,120	4,112	671	3,243	851
1937—Stp. pit	80,116	79	1,014		
B. Ground	2,551,034	3,148	810	3,162	832
1938—Stp. pit	72,829	74	945		
B. Ground	2,380,434	3,573	667	2,846	801*
1939—Stp. pit	76,394	73	1,048		
B. Ground	2,372,805	3,636	653	2,900	818*

*See note on page over.

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1922—Stp. pit	367,514	217	1,692		
B. Ground	179,550	403	445	277	648
1923—Stp. pit	288,467	190	1,513		
B. Ground	174,994	354	494	260	673
1924—Stp. pit	369,724	211	1,752		
B. Ground	222,222	393	565	278	799
1925—Stp. pit	335,993	162	2,074		
B. Ground	245,842	461	533	326	754
1926—Stp. pit	258,964	147	1,761		
B. Ground	231,407	443	545	305	758
1927—Stp. pit	304,584	193	1,583		
B. Ground	290,606	478	608	321	905
1928—Stp. pit	394,682	179	2,205		
B. Ground	345,810	645	536	457	756
1929—Stp. pit	319,764	163	1,962		
B. Ground	348,344	585	595	402	866
1930—Stp. pit	304,144	157	1,937		
B. Ground	299,187	569	526	390	767
1931—Stp. pit	280,251	161	1,803		
B. Ground	191,138	486	393	336	569
1932—Stp. pit	348,266	177	1,868		
B. Ground	211,213	491	430	341	619
1933—Stp. pit	309,365	170	1,820		
B. Ground	244,776	516	474	370	661
1934—Stp. pit	302,054	158	1,912		
B. Ground	235,488	482	489	326	722
1935—Stp. pit	287,970	180	1,600		
B. Ground	278,466	501	830	337	826
1936—Stp. pit	263,899	175	1,508		
B. Ground	302,587	532	569	360	841
1937—Stp. pit	229,747	149	1,542		
B. Ground	276,782	504	549	348	795
1938—Stp. pit	227,317	148	1,536		
B. Ground	261,595	633	772	327	800*
1939—Stp. pit	246,459	142	1,735		
B. Ground	265,646	494	538	320	830*

*See note on page over.

PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD

1910	1,896,961	2,981	636	2,076	914
1911	649,745	2,645	246	1,820	357
1912	1,926,371	3,243	594	2,353	818
1913	2,374,401	3,562	666	2,645	897
1914	1,953,367	3,529	553	2,632	742
1915	1,626,237	2,921	557	2,103	773
1916	2,335,259	3,142	743	2,258	1,034
1917	2,206,868	3,335	661	2,429	909
1918	2,982,334	3,636	820	2,597	1,109
1919	3,225,787	3,118	745	2,100	1,108
1920	3,410,021	4,228	809	2,711	1,202
1921	2,897,380	4,133	701	2,820	1,026
1922	2,214,273	3,034	729	2,084	1,062
1923	3,241,614	4,345	746	3,215	1,008
1924	1,515,107	2,171	698	1,574	966
1925	2,145,200	3,277	654	2,422	885
1926	2,858,508	3,375	847	2,550	1,121
1927	2,984,419	3,682	810	2,757	1,082
1928	3,215,481	3,862	832	2,468	1,302
1929	3,093,393	3,880	797	2,898	1,077
1930	2,278,490	3,341	682	2,461	926
1931	1,846,357	3,023	611	2,214	834
1932	1,733,720	2,621	660	1,892	916
1933	1,726,596	2,876	600	2,080	830
1934	1,915,740	2,934	653	2,113	907
1935	2,248,625	3,096	726	2,248	1,000
1936	2,288,658	3,184	719	2,337	979
1937	2,414,003	3,156	765	2,295	1,052
1938	2,287,850	3,131	731	2,254	1,015
1939	2,556,801	3,111	822	2,297	1,113

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PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	261,785	530	493	338	774
1911	80,119	500	160	209	383
1912	178,589	438	407	225	793
1913	168,720	489	345	263	641
1914	170,971	422	405	230	743
1915	125,732	343	366	180	698
1916	140,544	296	474	141	996
1917	118,717	284	418	129	920
1918	131,225	286	458	124	1,058
1919	85,616	229	374	95	901
1920	130,594	287	455	117	1,116
1921	96,674	284	341	127	761
1922	40,417	112	361	41	986
1923	107	69	1	9	12

NOTE.—The table showing the number of men employed in the Anthracite Coal Field, includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

*Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under permit.

PER CAPITA PRODUCTION OF MINES BY AREAS:
DOMESTIC COAL FIELD

Area	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
Ardley	15,682	46	345	37	424
Big Valley	2,441	8	305	7	349
Brooks	10,980	12	915	6	1,830
Camrose	54,693	92	594	68	804
Carbon	80,033	137	584	111	721
Castor	38,109	93	410	86	443
Champion	15,273	47	325	41	373
Drumheller	1,223,338	1,685	726	1,355	903
Edmonton	470,576	683	689	564	834
Gleichen	26,091	70	373	60	435
Halcourt	3,003	17	177	15	200
Lethbridge	329,416	525	627	385	856
Magrath	431	3	144	2	215
Milk River	5,961	13	458	4	1,490
Pakon	202	6	34	2	101
Pakowki	1,438	8	179	8	180
Pembina	38,891	55	707	42	926
Redcliff	26,094	45	580	35	745
Rochester	974	5	195	4	243
Sexsmith	95	2	47	2	47
Sheerness (Stripping)	32,082	29	1,106		
Sheerness (Underground)	4,627	11	421	10	463
Taber	12,731	37	344	29	439
Tofield (Stripping)	44,312	44	1,007		
Tofield (Underground)	4,192	5	838	5	838
Wetaskiwin	3,224	13	247	12	269
Whitecourt	215	2	107	2	107
No Area	4,095	16	256	8	512
Total	2,449,199	3,709	660	2,900	818*

SUB-BITUMINOUS COAL FIELD

Coalspur (Stripping)	246,459	142	1,735		
Coalspur (Underground)	113,977	220	518	139	819
Morley	107	2	54	2	54
Pekisko	5,385	12	449	9	598
Pincher	1,374	5	275	3	458
Prairie Creek	104,067	158	659	99	1,051
Saunders	40,736	97	420	68	599
Total	512,105	636	805	320	830*

*This figure is arrived at by deducting the tonnage from stripping pits from gross tonnage mined and dividing the product by the number of men employed underground.

BITUMINOUS COAL FIELD

Cascade	194,441	261	744	176	1,105
Crowsnest	1,400,802	1,833	764	1,403	998
Highwood	10	6	1	5	2
Mountain Park	810,442	811	999	578	1,402
Nordegg	151,106	200	755	135	1,119
Total	2,556,801	3,111	822	2,297	1,113

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Number of days on which Coal was drawn in the DOMESTIC FIELD by areas during each month:

Areas		Jan	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley		12.27	6.40	4.33	3.00	3.50	14.50	5.50	10.71	13.40	12.75	16.67	115.03	
Big Valley		11.90	9.00	10.00	8.50	18.00	17.00	16.00	18.30	16.50	18.50	15.75	158.98	
Brooks		24.00	18.50	15.00	16.67	15.15	15.00	17.00	26.00	22.50	26.00	22.50	236.00	
Camrose		17.22	16.89	13.35	6.65	7.57	10.30	7.09	18.80	24.00	17.29	19.31	19.44	148.88
Castor		15.88	16.00	10.21	8.40	6.86	8.42	7.87	15.69	20.21	18.73	17.06	16.00	159.74
Champion		15.18	14.59	14.25	13.25	8.38	6.87	8.25	8.88	13.13	11.56	11.56	11.56	145.55
Drumheller		12.15	14.04	9.78	7.63	6.15	6.13	6.37	11.19	17.79	22.00	20.33	16.00	165.13
Edmonton		18.38	19.74	16.56	11.07	11.40	10.43	13.45	17.90	21.88	18.44	17.64	18.74	189.74
Gleichen		15.00	14.86	14.14	14.67	10.82	10.80	13.80	13.43	19.56	18.71	22.71	19.14	187.64
Halcourt		21.50	16.25	12.43	1.00	1.00	4.00	19.00	11.50	13.00	15.00	23.80	16.71	155.19
Lethbridge		16.67	16.66	16.35	10.47	10.14	10.15	13.50	17.20	19.32	20.55	19.96	15.32	186.90
Magrath		18.00	19.00	16.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	136.00
Milk River		17.00	12.33	7.25	7.33	8.00	8.75	8.00	13.00	21.00	22.25	18.75	14.67	158.33
Pakani		17.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	143.00
Pakowski		9.25	9.00	8.67	5.50	10.00	9.33	4.50	9.50	16.25	18.75	8.67	129.67	
Pembina		16.00	12.33	10.75	7.00	13.00	15.00	9.50	8.00	9.33	14.25	11.00	14.60	140.76
Redcliff		12.00	14.50	12.50	4.00	13.00	9.00	10.50	17.30	26.00	20.00	10.50	10.50	154.00
Rochester		23.00	17.50	14.00	... ..	... ..	... ..	1.00	2.00	15.50	21.50	22.00	22.00	116.50
Sexsmith		12.44	13.56	11.13	8.75	7.50	10.67	13.20	8.50	12.47	15.00	13.00	15.00	143.00
Sheerness		12.23	15.08	12.15	8.12	6.77	7.50	7.66	9.64	18.82	19.83	16.08	16.08	152.95
Tahsis		17.75	13.67	23.00	12.00	15.00	15.00	16.00	17.00	17.38	13.21	17.38	13.21	150.29
Tonle		16.75	17.75	16.33	6.33	4.50	5.00	8.00	7.67	6.33	14.75	16.00	16.25	135.66
Wetaskiwin		15.00	3.00	4.00	10.67	... ..	... ..	... ..	... ..	9.00	21.33	6.00	12.00	40.00
Whitecourt		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	94.67
No Area		15.88	14.67	12.25	9.74	8.16	9.86	10.59	11.91	15.03	19.30	18.14	15.22	160.75

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month

Coalspur	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	155.47
Mortley	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32.00
Petiske	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	155.77
Princher	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	134.50
Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	205.50
Saunders	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	138.33
Average Total	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	157.46
13.66	12.50	11.33	20.50	14.25	7.66	1.00	12.80	16.60	17.17	12.50	15.50	15.50	15.50	155.47	
20.00	6.00	.....	.....	.....	4.00	.....	7.25	13.00	16.00	21.75	16.75	16.75	16.75	155.77	
14.00	14.60	16.75	10.67	6.00	.....	.....	9.00	5.00	12.00	18.50	21.00	18.50	18.50	134.50	
16.00	16.50	8.50	7.00	6.00	7.00	.....	10.50	13.50	22.50	25.00	24.50	24.50	24.50	205.50	
17.50	21.00	14.50	20.00	10.00	8.00	4.00	12.50	17.50	24.50	16.50	11.00	11.00	11.00	138.33	
18.33	14.33	11.67	4.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	138.33
13.16	12.55	12.43	9.06	6.15	6.35	11.36	16.72	20.23	19.25	13.04	13.04	13.04	13.04	157.46	

WILLIAMS - done on which CON was drawn in the BRITANNIA FIELD by areas during each month.

Number of days on which Coal was drawn each month:

	Domestic	Sub-Bituminous	Bituminous	Average Total . . .
	15.88	14.67	12.25	9.74
	17.16	13.16	12.55	12.43
	16.01	17.25	16.29	13.63
	15.03	15.03	13.70	11.93
				10.69
				9.61
				10.47
				13.58
				16.43
				20.04
				18.19
				14.22
				170.29

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1939:
DOMESTIC FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	259	508	349	642	178	249	101	184	78	197	89	173	1,054	1,953
Big Valley	46	130	40	140	28	77	18	31	15	22	50	164	443	514
Brooks	128	161	135	126	118	106	90	48	78	33	80	629	2,669	6,841
Camrose	633	2,002	633	1,708	506	1,392	264	634	321	482	312	623	2,639	7,897
Carbon	657	2,052	699	2,049	511	1,673	308	870	212	634	252	619	2,639	7,897
Castor	438	1,340	456	1,277	301	714	154	217	121	140	60	169	1,530	3,857
Champion	112	583	107	603	97	486	61	185	49	141	59	170	486	2,168
Drumheller	7,121	26,998	7,658	29,138	5,072	16,892	2,730	5,882	2,187	3,809	2,394	3,558	27,162	86,277
Edmonton	3,683	14,521	3,030	14,920	2,749	10,635	1,645	5,328	1,389	3,887	1,327	3,522	13,823	52,813
Gleichen	115	1,396	324	1,200	264	950	135	387	84	198	112	215	1,034	4,346
Halcourt	99	353	143	251	66	342	5	13	1	12	36	215	1,034	27,997
Lethbridge	2,753	6,748	2,956	7,342	2,469	4,882	1,832	2,878	2,022	2,318	2,256	3,043	14,326	27,211
Magrath	18	36	19	31	16	17	21	21	21	21	21	74	1,054	14,288
Milk River	53	53	37	25	29	39	22	8	32	10	53	13	226	148
Pakowki	17	17	12	12	12	12	12	12	12	12	12	29	126	172
Pembina	33	33	27	45	26	36	11	20	11	17	18	16	126	3,390
Redcliff	296	513	294	580	247	664	236	492	250	544	260	597	1,583	3,950
Rochester	151	517	169	631	149	438	30	120	23	95	39	149	361	1,950
Sexsmith	49	98	35	105	14	27	14	27	14	27	14	27	125	217
Sheerness	1,105	86	438	100	282	79	257	58	193	18	50	59	2,644	400
Taber	151	324	208	346	116	198	61	120	66	107	49	83	651	1,178
Tofield	886	105	890	79	847	32	805	948	32	1,356	4	5,732	222	720
Wetaskiwin	67	288	71	202	49	156	19	19	13	32	12	23	231	225
Whitecourt	15	15	3	6	4	4	4	4	4	4	4	4	22	25
No. Area	144	369	62	140	43	97	... ...	...	...	...	...	...	249	606
Total	19,029	59,251	18,795	61,698	14,181	40,172	8,832	17,515	8,088	12,681	9,181	13,162	78,106	204,479

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Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1939:

DOMESTIC FIELD

Areas	July		August		September		October		November		December		Total for Year 1939				
	Above Ground	Below Ground	July to Dec.	Above Ground	Below Ground												
Ardley	86	143	148	270	217	406	212	482	331	749	276	729	2,779	2,324	4,732		
Big Valley	20	35	21	53	37	74	33	66	96	248	58	198	674	429	1,117		
Brooks	81	50	94	277	259	304	277	295	255	156	167	1,189	1,065	1,818	1,579		
Carmrose	400	716	409	1,009	519	1,345	633	2,080	607	2,233	527	1,646	3,095	9,039	5,764		
Carbon	241	425	337	1,002	643	1,904	819	2,762	904	3,133	807	2,595	11,825	11,722	15,810		
Castor	160	196	158	260	266	626	647	2,303	635	2,854	557	2,423	8,248	6,420	12,105		
Champion	58	184	106	417	158	768	228	1,171	206	1,173	122	669	878	4,382	3,953		
Drumheller	2,879	3,525	4,751	12,830	7,797	29,644	11,310	48,291	10,276	41,526	6,624	22,398	43,637	158,204	122,799		
Edmonton	1,476	3,672	1,822	5,084	2,239	8,230	3,445	15,517	3,284	14,268	3,033	13,208	41,628	244,481	244,481		
Gleichen	127	304	213	513	354	1,338	429	1,770	431	2,393	283	1,715	1,837	59,979	29,122		
Halcourt	132	70	18	81	58	115	53	121	101	507	124	454	8,013	2,871	12,355		
Lethbridge	2,364	2,927	29,71	6,564	3,676	9,788	4,018	12,228	3,979	10,716	2,635	5,586	19,643	1,444	2,444		
Magrath	68	14	56	26	6	2	6	21	84	84	12	36	56	47,809	33,931		
Milk River	Pakowki	16	36	13	63	40	47	46	112	157	37	144	28	1,656	210	130	
Pembina	233	539	213	428	291	520	345	610	201	547	16	198	414	3,245	3,184	6,636	
Redcliff	59	184	96	267	189	584	415	1,240	291	934	132	421	1,182	3,630	1,743	5,380	
Rochester	27	43	2	38	11	48	36	33	93	44	113	233	255	358	472	472	
Sexsmith	29	32	32	32	32	32	8	20	6	20	10	20	112	60	162	60	
Sheerness	518	36	354	45	335	101	619	273	850	380	575	193	3,251	1,028	5,895	1,428	
Taher	75	101	126	187	310	610	269	861	231	527	180	338	1,191	2,624	1,832	3,802	
Tonleld	1,422	6	776	8	639	55	1,162	201	999	164	108	5,879	532	11,611	764	11,611	
Wetaskiwin	52	31	36	44	102	100	119	66	257	65	290	306	856	537	1,576	1,576	
Whitecourt	40	18	18	141	41	106	263	140	140	12	14	16	30	46	788	1,313	
No Area	Total	10,509	13,275	12,803	29,237	18,768	56,671	25,901	91,139	24,488	83,456	17,950	53,688	110,479	327,466	188,525	531,945

THE MINES BRANCH

SUB-BITUMINOUS FIELD

Areas	SUB-BITUMINOUS FIELD						Total Jan. to June						
	January Above Ground	January Below Ground	February Above Ground	February Below Ground	March Above Ground	March Below Ground		April Above Ground	April Below Ground	May Above Ground	May Below Ground	June Above Ground	June Below Ground
Coalspur	5,776	3,112	5,177	2,983	4,990	1,790	4,185	141	4,516	506	4,746	485	29,390
Morley	20	340	3	9	5	15	5	5	7	58	6	28	9,017
Petisko	77	147	81	119	76	112	40	60	37	30	21	369	82
Pincher Creek	47	47	27	27	22	37	7	14	12	14	14	129	489
Prairie Creek	1,228	1,384	1,104	2,315	1,076	2,051	774	1,803	686	1,992	643	1,682	151
Saunders	608	1,857	496	1,472	345	697	170	127	182	59	242	238	11,777
Total	.....	7,756	7,137	6,888	6,925	6,514	4,702	5,176	2,150	2,433	2,606	5,703	4,450

BITUMINOUS FIELD

Areas	BITUMINOUS FIELD						Total Jan. to June
	January Above Ground	January Below Ground	February Above Ground	February Below Ground	March Above Ground	March Below Ground	
Cascade	1,803	2,940	1,823	3,368	1,840	2,971	1,832
Crownest	7,626	18,993	8,023	21,774	9,020	23,725	7,656
Mountain Park	11,325	11,810	5,434	11,810	5,539	12,632	5,044
Nordegg	1,384	1,696	1,421	1,604	1,402	1,604	1,151
Total	15,861	35,454	16,701	38,556	17,801	40,932	15,683

TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS COAL FIELDS

Areas	TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS COAL FIELDS						Total Jan. to June
	January Above Ground	January Below Ground	February Above Ground	February Below Ground	March Above Ground	March Below Ground	
Domestic Sub-Bituminous	19,029	59,251	18,795	61,698	14,181	40,172	8,832
Bituminous	7,756	7,137	6,888	6,925	6,514	4,702	5,176
Total	15,861	35,454	16,701	38,556	17,801	40,932	15,683

Areas	July		August		September		October		November		December		July to Dec.		Total for Year 1939		
	Above Ground		Below Ground		Above Ground		Below Ground		Above Ground		Below Ground		Above Ground		Below Ground		
	Above	Below	Above	Below	Above	Below	Above	Below	Above	Below	Above	Below	Above	Below	Above	Below	
SUB-BITUMINOUS FIELD																	
Coalspur	2,246	213	4,069	2,052	5,472	1,904	6,569	3,836	6,567	2,729	6,594	2,462	31,517	13,196	60,907	22,213	
Morley	15	15	72	96	81	84	82	162	91	214	6	18	8	42	36	124	
Petisko	70	51	10	24	48	55	62	98	62	77	173	473	780	842	1,269		
Prairie Creek	18	18	2,023	1,266	3,006	1,589	3,496	1,556	3,717	2,297	60	194	340	7,333	1,340	491	
Saunders	665	2,002	865	545	1,343	868	2,339	755	1,731	514	1,260	3,354	7,836	12,749	29,069	12,286	
Total	3,252	2,563	5,435	5,080	7,388	6,390	9,166	9,931	9,033	8,501	8,510	7,021	42,784	39,486	80,254	65,452	
BITUMINOUS FIELD																	
Cascade	2,011	2,710	2,139	3,143	1,948	2,778	2,218	3,681	2,206	3,867	2,152	3,597	12,674	19,776	23,835	36,799	
Crowsnest	8,415	21,968	10,570	28,749	8,228	19,649	9,622	22,814	8,807	20,815	8,938	22,117	54,580	136,112	103,284	261,655	
Highwood																	
Mountain Park	5,004	11,842	5,296	13,687	5,359	12,394	6,329	15,883	6,055	15,815	6,117	14,323	34,160	82,944	64,903	153,866	
Nordegg	990	1,255	1,940	1,495	2,737	1,635	2,993	1,511	2,740	1,399	2,201	8,411	13,866	15,916	22,435		
Total	16,420	37,775	19,386	47,519	17,030	37,558	19,804	45,371	18,613	43,307	18,622	42,291	109,875	253,821	207,988	474,878	
TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS COAL FIELDS																	
Domestic Sub-Bituminous	10,509	13,275	12,803	29,237	18,768	56,671	25,901	91,139	24,488	83,456	17,950	53,688	110,419	327,466	188,525	531,945	
	3,252	2,563	5,435	5,080	7,388	6,390	9,166	9,931	9,033	8,501	8,510	42,784	39,486	80,254	65,452		
	16,420	37,775	19,386	47,519	17,030	37,558	19,804	45,371	18,613	43,307	18,622	42,291	109,875	253,821	207,988	474,878	
Total	30,181	53,613	37,624	81,836	43,186	100,619	54,871	146,441	52,134	135,264	45,082	103,000	263,078	620,773	476,767	1,072,275	

THE MINES BRANCH

AMOUNT OF MINE TIMBER USED DURING THE YEAR 1939:
DOMESTIC COAL FIELD

Area	Round Timber, linear feet	Lumber, B.M. feet	Ties, linear feet	Lagging, linear feet	Slabs, cords	Sprags
Ardley	52,220	...	...	...	...	...
Big Valley	8,538	...	...	...	...	...
Brooks	25,488	...	...	...	...	...
Camrose	254,505	...	...	...	...	...
Carbon	373,669	...	...	...	...	...
Castor	168,700	...	...	...	...	...
Champion	78,680	...	...	...	...	...
Drumheller	4,903,583	...	109,472	...	37	...
Edmonton	3,103,640	...	47,409	...	220 1/3	...
Gleichen	78,200	...	...	...	...	...
Halcourt	12,080	...	...	...	...	...
Lethbridge	1,736,211	21,892	47,884	...	...	...
Magrath	1,500	...	...	...	...	...
Milk River	4,100	...	...	...	...	...
Pakan	1,000	...	...	...	...	...
Pakowki	6,480	...	...	...	...	...
Pembina	105,249	...	...	...	...	...
Redcliff	93,643	...	9,600	...	...	...
Rochester	8,050	...	...	...	...	...
Sexsmith	200	...	...	...	...	...
Sheerness	18,660	...	...	...	...	...
Taber	47,380	486	...	100	...	...
Tofield	10,484	...	...	...	...	...
Wetaskiwin	14,052	...	...	...	...	...
Whitecourt	900	...	...	...	...	...
No Area	23,106	...	1,200	2,200	...	...
Total	11,130,318	22,378	215,565	2,300	257 1/3	...

SUB-BITUMINOUS COAL FIELD

Coalspur	134,784	...	...	...	...	...
Morley	1,100	...	...	...	...	...
Pekisko	13,760	...	...	400	...	...
Pincher	5,100	...	...	...	...	...
Prairie Creek	363,016	...	...	...	...	...
Saunders	177,169	...	...	57,760	...	...
Total	694,929	...	...	58,160	...	...

BITUMINOUS COAL FIELD

Cascade	304,830	...	...	...	...	...
*Crowsnest	2,747,848	...	...	...	...	...
Mountain Park	1,219,517	926,229	4,980	704,338	...	9,368
Nordegg	530,838	...	...	...	...	...
Total	4,803,933	926,229	4,980	803,223	...	9,368

*Mines in Crowsnest Area also used 203,863 feet of steel rails for timbering.

PARTICULARS OF LAMPS IN THE DOMESTIC COAL FIELD

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Portable Electric Lamps, Edison Cap Type	1,207	1,592	1,800	2,627	2,530	2,481	2,521	2,634	2,556	2,792	2,310	2,300	2,148	2,123
Portable Electric Lamps, Wico Cap Type	275	..	..	..	..	..	..	..	..	..	..	..	..	..
Portable Electric Lamps, Wheat Cap	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Portable Electric Lamps, Wolfe Flame Type	108	108	106	157	171	160	174	66	66	242	191	244	308	58
Safety Lamps, Koehler Flame Type	4	3	..	..	..	..	..	174	174	3	3	3	244	104
Total	1,594	1,703	1,906	2,784	2,701	2,807	2,761	2,879	2,813	3,039	2,618	2,606	2,373	2,395

PARTICULARS OF LAMPS IN THE SUB-BITUMINOUS COAL FIELD

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Portable Electric Lamps, Edison Cap Type	120	120	140	161	184	387	350	357	453	275	297	372	389	449
Safety Lamps, Wolfe Flame Type	42	39	45	37	25	51	59	39	46	39	38	45	39	41
Total	162	159	185	198	209	438	409	396	499	314	335	417	428	490

PARTICULARS OF LAMPS IN THE BITUMINOUS COAL FIELD

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Portable Electric Lamps, Edison Cap Type	3,024	3,378	3,510	3,310	3,458	4,458	3,005	2,922	2,638	2,743	2,607	2,788	2,745	2,517
Portable Electric Lamps, Wheat Electric Cap Type	..	..	..	11	12	..	..	..	..	..	..	..	..	..
Portable Electric Lamps, Wolfe Flame Type	554	633	468	383	345	353	337	318	20	25	327	321	319	255
Safety Lamps, Koehler Flame Type	8	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	3,578	4,019	4,019	3,705	3,323	4,818	3,342	3,240	2,987	3,067	2,959	3,124	3,089	2,772

THE MINES BRANCH

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:
DOMESTIC COAL FIELD

Areas	Names of Explosives								Total		
	Pellets	Polar Monobel No. 4	Polar Monobel No. 14	CXL-ITE	Cardox	Slopeite	40% Dynamite	Stumping Powder			
Ardley	7,570	..	512	..	..	..	..	..	8,082
Big Valley	540	..	..	..	..	..	..	..	540
Brooks	6,250	..	..	..	..	..	..	..	6,250
Camrose .....	..	550	..	..	..	..	..	30	580
Carbon	25,844	..	..	..	..	..	..	..	25,844
Castor	6,960	60	..	..	..	..	..	..	7,020
Champion	8,040	..	..	..	..	..	..	..	8,040
Drumheller	102,685	3,780	15,187	..	28,500	800	50	..	30,325		
Edmonton	10,779	1,450	19,488	..	..	..	180	..	5,982
Gleichen	7,260	..	..	..	..	..	..	..	7,260
Halcourt	200	125	..	..	..	..	..	..	325
Lethbridge	8,630	5,307	15,749	..	11,113	..	..	..	40,799
Magrath .....	..	250	..	..	..	..	..	..	250
Milk River	1,110	1,350	..	..	..	..	..	..	2,460
Pakan .....	..	..	60	..	..	..	..	..	60
Pakowki	350	75	..	..	..	..	..	..	425
Pembina .....	..	418	62	..	..	..	..	..	480
Redcliff	2,800	..	1,500	..	..	..	..	..	4,300
Rochester	90	5	..	..	..	..	..	..	95
Sexsmith	16	..	..	..	..	..	..	..	16
Sheerness	150	..	65	..	..	..	..	1,550	1,000
Taber	3,906	17	..	..	..	..	50	300	3,923
Tofield .....	..	..	..	..	..	..	..	5,695	6,045
Wetaskiwin	225	..	200	..	..	..	..	..	425
Whitecourt	130	..	..	..	..	..	..	..	130
No Area	10	..	105	..	..	..	4	..	119
Total	193,545	12,837	53,418	60	39,613	800	104	480	7,275	37,307	345,439

SUB-BITUMINOUS COAL FIELD

Areas	Names of Explosives						Total	
	Pellets	Polar Monobel No. 4	Polar Monobel No. 14	35% Polar Forcite	40% Dynamite	Miner's Friend		
Coalspur .....	..	..	21,700	..	51,000	250	..
Morley .....	..	..	25	..	..	..	25
Pekisko .....	..	..	165	2,670	..	..	2,835
Pincher .....	..	..	550	..	..	..	550
Prairie Creek	2,793	30,574	..	2,717	..	..	36,084
Saunders	3,110	6,697	..	..	..	10	9,817
Total	5,903	59,711	5,387	51,000	250	10	100	122,361

BITUMINOUS COAL FIELD

Areas	Names of Explosives			Total	
	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 14		
Cascade	29,650	..	..	14,460	44,110
Crowsnest	17,279	..	..	..	17,279
Mountain Park	12,433 1/3	62,504	74,937 1/3
Nordegg	10,000	10,000
Total	69,362 1/3	62,504	14,460	..	146,326 1/3

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Number of tons of coal produced per pound of Explosives used for blasting coal:
DOMESTIC COAL FIELD

Areas	Number of tons of coal mined	Number of pounds of explosive used	Tons of coal mined per pound of explosive used
Ardley	15,682	8,082	1.94
Big Valley	2,441	540	4.52
Brooks	10,980	6,250	1.76
Camrose	54,693	580	94.29
Carbon	80,033	25,844	3.09
Castor	38,109	7,020	5.43
Champion	15,273	8,040	1.89
Drumheller	1,223,338	181,327	6.75
Edmonton	470,576	37,879	12.42
Gleichen	26,091	7,260	3.59
Halcourt	3,003	325	9.24
Lethbridge	329,416	40,799	8.06
Magrath	431	250	1.72
Milk River	5,961	2,460	2.42
Pakana	202	60	3.37
Pakowki	1,438	425	3.38
Pembina	38,891	480	81.02
Redcliff	26,094	4,300	6.06
Rochester	974	95	10.25
Sexsmith	95	16	5.94
Sheerness	36,709	2,765	13.28
Taber	12,731	3,923	3.25
Tofield	48,504	6,045	8.02
Wetaskiwin	3,224	425	7.58
Whitecourt	215	130	1.65
No Area	4,095	119	34.41
Total	2,449,199	345,439	7.09

SUB-BITUMINOUS COAL FIELD

Coalspur	360,436	73,050	4.93
Morley	107	25	4.00
Pekisko	5,385	2,835	1.89
Pincher	1,374	550	2.50
Prairie Creek	104,067	36,084	2.88
Saunders	40,736	9,817	4.15
Total	512,105	122,361	4.19

BITUMINOUS COAL FIELD

Cascade	194,441	44,110	4.41
Crowsnest	1,400,802	17,279	81.07
Highwood	10		
Mountain Park	810,442	74,937	10.81
Nordegg	151,106	10,000	15.11
Total	2,556,801	146,326	17.46

THE MINES BRANCH

Estimated number of shots fired for blasting coal:
DOMESTIC COAL FIELD

Areas	Electric Detonators	Electric Squibs	Fuse	Squibs	Cardox Heaters	Total
Ardley	.....	.....	7,296	.....	.....	7,296
Big Valley	.....	1,220	30	.....	.....	1,250
Brooks	.....	.....	3,150	.....	.....	3,150
Camrose	500	1,010	.....	.....	.....	1,510
Carbon	.....	27,260	300	.....	.....	27,560
Castor	.....	5,572	773	.....	.....	6,345
Champion	.....	9,533	2,490	.....	.....	12,023
Drumheller	30,244	57,964	96,642	200	3,329	188,379
Edmonton	24,616	3,352	29,652	.....	.....	57,620
Gleichen	.....	10,400	400	.....	.....	10,800
Halcourt	.....	964	.....	.....	.....	964
Lethbridge	39,742	.....	54	6,891	10,390	57,077
Magrath	.....	300	.....	.....	.....	300
Milk River	.....	5,650	300	.....	.....	5,950
Pakan	.....	.....	90	.....	.....	90
Pakowki	.....	270	500	.....	.....	770
Pembina	332	.....	289	.....	.....	621
Redcliff	1,700	.....	.....	1,500	.....	3,200
Rochester	.....	.....	75	.....	.....	75
Sexsmith	.....	.....	40	.....	.....	40
Sheerness	.....	100	4,921	30	.....	5,051
Taber	.....	.....	75	4,900	.....	4,975
Tofield	.....	.....	2,860	.....	.....	2,860
Wetaskiwin	.....	.....	580	.....	.....	580
Whitecourt	.....	.....	425	.....	.....	425
No Area	.....	.....	252	.....	.....	252
Total	97,134	61,416	205,430	21,464	13,719	399,163

SUB-BITUMINOUS COAL FIELD

Coalspur	29,621	.....	200	.....	.....	29,821
Morley	75	.....	.....	.....	.....	75
Pekisko	3,460	.....	300	.....	.....	3,760
Pincher	710	.....	.....	.....	.....	710
Prairie Creek	41,502	.....	.....	.....	.....	41,502
Saunders	.....	.....	12,145	.....	.....	12,145
Total	75,368	.....	12,645	.....	.....	88,013

BITUMINOUS COAL FIELD

Cascade	71,706	.....	.....	.....	.....	71,706
Crowsnest	18,957	18,957
Mountain Park	64,495	64,495
Nordegg	15,050	15,050
Total	170,208	170,208

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Number of miss-fire shots recorded in blasting coal in the Province:
DOMESTIC COAL FIELD

Areas	CO ₂ Heaters	Electric Detonators	Electric Squibs	Squibs	Fuse	Total
Ardley					55	55
Big Valley					3	3
Camrose					4	4
Carbon					34	34
Castor				12	30	42
Champion					5	5
Drumheller	56	14	32	1	26	129
Edmonton		5	5		58	68
Gleichen					10	10
Halcourt					4	4
Lethbridge						77
Milk River					5	5
Redcliff				11		11
Sheerness					11	11
Taber				4		4
Tofield					9	9
Wetaskiwin					1	1
No Area					2	2
Total	131	21	37	28	257	474

SUB-BITUMINOUS COAL FIELD

Coalspur		6				6
Pekisko		5				5
Prairie Creek		3				3
Saunders		3				3
Total		17				17

BITUMINOUS COAL FIELD

Cascade		3				3
Mountain Park		7				7
Total		10				10

THE MINES BRANCH

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province:

Areas	Names of Explosives										Total		
	Pellets	Polar Mono No. 4	Polar Mono No. 6	Polar Mono No. 14	Dynamite 40%	Dynamite 60%	CX-L-TTE	Stiperite	Stumpitie	Powder	Polar	Powder	Total
Camrose	100	83	1,150	50	116½	...	...	...	...	...	...	50½	299½
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	2,900
Cascade	...	50	...	...	...	...	...	...	...	...	...	...	50
Castor	...	50	...	...	...	...	...	...	...	...	...	...	...
Champion	...	50	...	...	850	...	...	220	...	...	...	...	1,120
Coalspur	...	...	...	...	45,524	400	3,550	...	...	...	...	...	11,750
Crownest	325	82	...	...	686	550	14,791	6,291	3,150	2,220	...	...	52,622
Drumheller	3,847	347	...	...	130	29	...	...	2,320	...	...	...	25,244
Edmonton	150	30	...	...	14	...	...	...	...	...	...	...	2,976
Gleichen	...	...	...	...	20	...	...	...	...	...	...	...	44
Halcourt	150	886	1,826	...	...	...	91,765	19,181	350	250	...	...	420
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	2,712
Mountain Park	...	...	...	...	...	...	...	...	...	...	...	...	110,946
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	350
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	120
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	10
Prairie Creek	...	...	...	...	...	...	...	...	...	...	...	...	3,711
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	120	...	700	...	...	...	...	...	...	...	...	...	100
Taber	...	50	...	...	25	...	200	...	...	...	...	...	820
Wetaskiwin	...	...	...	...	...	...	5	...	...	...	...	...	250
Whitecourt	...	...	...	...	150	...	...	...	...	...	...	...	25
No Area	...	...	...	...	...	...	...	...	...	...	...	...	5
Total	620	5,953	1,232	3,406	47,314½	106,956	3,550	36,973	2,220	250½	11,750	220,225	

Estimated number of shots fired for blasting rock in Coal-mines in the Province:

Areas	Electric Deton- ators	Electric Squibs	Squibs	Fuse	Delay Fuse	Total
Camrose	150			1		151
Carbon				209		209
Castor				30		30
Cascade	7,500					7,500
Champion			1,500	1,823		3,323
Coalspur	1,877			300		2,177
Crowsnest	9,570					
Drumheller	28,128			8,119	12,214	21,784
Edmonton	1,658	60		642		2,360
Gleichen				250		250
Halcourt				810		810
Lethbridge	5,596					5,596
Mountain Park	28,881					28,881
Nordegg	900					900
Pakowki			200	30		230
Pembina				8		8
Prairie Creek	3,526					3,526
Redcliff				60		60
Saunders				910		910
Taber				450		450
Wetaskiwin				60		60
Whitecourt				8		8
No Area				250		250
Total	87,786	60	1,700	13,960	12,214	115,720

Number of miss-fire shots recorded in blasting rock in Coal-mines in the Province:

Champion				7		7
Crowsnest		8				8
Drumheller		574		3		577
Edmonton				7		7
Halcourt				4		4
Mountain Park		33				33
No Area				2		2
Total	615			23		638

THE MINES BRANCH

ELECTRICITY

The rules for the installation and use of electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 77 different mines in 1939. A summary of these returns regarding the horse-power of electrical apparatus in use is given below.

Areas	No. of mines using Electricity	Horse-power of electrical apparatus in use		Total Horse-power
		Above Ground	Below Ground	
Ardley	1	5	63	68
Big Valley	1	30	33	63
Camrose	2	14	9	23
Carbon	6	155	326 $\frac{3}{4}$	481 $\frac{3}{4}$
Cascade	1	716	175	891
Coalspur	5	1,200	462	1,662
Crowsnest	6	14,177	2,570	16,747
Drumheller	21	2,928 $\frac{1}{2}$	4,519 $\frac{1}{2}$	7,448
Edmonton	8	704 $\frac{1}{2}$	1,120	1,824 $\frac{1}{2}$
Gleichen	1	2	4	6
Lethbridge	8	1,920	1,066	2,986
Mountain Park	3	2,259	1,375	3,634
Nordegg	1	702	80	782
Pembina	3	43	71	114
Pincher	1	59	—	59
Prairie Creek	2	96	259	355
Redcliff	2	130	60	190
Saunders	2	116 $\frac{1}{2}$	173	289 $\frac{1}{2}$
Sheerness	1	12 $\frac{1}{2}$	—	12 $\frac{1}{2}$
Taber	2	20	45	65
Total	77	25,290	12,411 $\frac{1}{4}$	37,701 $\frac{1}{4}$

COAL-CUTTING MACHINERY

Areas	No. of machines operated by		Tons of coal mined by	
	Electricity	Compressed air	Electricity	Compressed air
Ardley	2	1	9,512	64
Big Valley	1	—	657	—
Carbon	9	—	69,228	—
Cascade	—	1	—	400
Castor	—	1	—	400
Champion	—	3	—	1,444
Coalspur	—	12	—	55,222
Crowsnest	—	172*	—	385,088
Drumheller	86	—	1,172,574	—
Edmonton	17	4	295,634	12,360
Gleichen	—	1	—	4,310
Halcourt	—	1	—	281
Lethbridge	20	2	296,405	720
Milk River	—	1	—	295
Pakowki	—	1	—	513
Pembina	1	—	1,786	—
Prairie Creek	5	1	88,952	3,200
Redcliff	2	—	25,393	—
Saunders	2	8	6,000	34,625
Taber	1	4	3,375	3,498
Total	146	213	1,969,516	502,420

*Compressed air operated 171 picks.

ACCIDENTS

Summary table showing Accidents occurring in Mines from 1906 to 1939 inclusive:

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61a	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,658
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209b	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39c	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,708
1933	4,714,784	6	60	109	785,797	78,580	43,255
1934	4,748,848	15	68	70	316,589	69,836	67,840
1935	5,462,973	35d	66	113	156,085	82,772	48,352
1936	5,696,375	11	79	101	517,852	72,106	56,400
1937	5,551,682	20	72	73	277,584	77,107	76,050
1938	5,230,025	21e	72	135	249,049	72,639	38,741
1939	5,518,105	17	57	180	324,594	96,809	30,657
Total	164,466,463	925	1,848	2,355	177,802	88,997	69,837

- a. Including thirty-one deaths caused by the Bellevue Explosion.
- b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.
- c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co., Ltd. Explosion.
- d. Including sixteen deaths caused by the explosion at the Lethbridge Collieries Ltd., at Coalhurst.
- e. Including five deaths caused by the explosion at Hinton Collieries Limited.

ACCIDENTS DURING 1939, CLASSIFIED ACCORDING TO THE COAL FIELD IN WHICH THEY OCCURRED

Domestic	2,449,199	8	25	66	306,150	97,968	37,109
Sub-Bituminous	512,105	6	6	10		85,351	51,210
Bituminous	2,556,801	9	26	104	284,089	98,338	24,584

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1939:

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			Per 1,000 men employed		Per 1,000,000 tons	Per 1,000 men employed		Per 1,000,000 tons	Per 1,000 men employed		Per 1,000,000 tons	Per 1,000 men employed		Per 1,000,000 tons
			No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,363,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.95	6.84	77	12.52	8.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	8,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.27	13.81
1921	5,937,195	10,010	21	3.54	2.40	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,452	8,547	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,386,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	51	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.51	25.68
1927	6,936,780	9,016	26	3.75	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	3.82	2.96	71	9.68	7.48	122	16.63	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	4.34	3.24	69	9.65	7.21	98	13.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	1.40	1.40	61	12.53	7.78	96	19.72	12.25	168	34.51	21.43
1933	*4,744,784	8,082	6	1.27	1.75	60	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934	*4,748,848	7,863	15	3.14	1.91	63	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935	*5,462,973	7,824	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936	*5,896,375	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937	*5,551,682	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938	*5,230,025	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76
1939	*5,518,105	7,456	17	3.08	2.27	57	10.33	7.64	180	32.60	24.14	254	34.06	

c. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co. Ltd.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd.

*Output does not include coal produced by farmers under permit.

DOMESTIC COAL FIELD

Number of tons produced per accident:

Areas	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Ardley	15,682	46				
Big Valley	2,441	8				
Brooks	10,980	12	10.980			10,980
Camrose	54,693	92				
Carbon	80,033	137		80,033		80,033
Castor	38,109	93	38.109			
Champion	15,273	47			19.054	12,703
Drumheller	1,223,338	1,685	305.834	81.556	43.690	26,028
Edmonton	470,576	683	470.576	94.115	47.057	29,411
Gleichen	26,091	70				
Halcourt	3,003	17				
Lethbridge	329,416	525	329.416	82.354	19.377	14,973
Magrath	431	3				
Milk River	5,961	13				
Pakan	202	6				
Pakowki	1,438	8				
Pembina	38,891	55			38.891	38,891
Redcliff	26,094	45			8.698	8,698
Rochester	974	5				
Sexsmith	95	2				
Sheerness	36,709	40				
Taber	12,731	37				
Tofield	48,504	49				
Wetaskiwin	3,224	13				
Whitecourt	215	2				
No Area	4,095	16			2.047	2.047
Total	2,449,199	3,709	306.149	97.968	37.109	24,739

SUB-BITUMINOUS COAL FIELD

Coalspur	360,436	362		120.145	120.145	60,072
Morley	107	2				
Pekisko	5,385	12				
Pincher	1,374	5				
Prairie Creek	104,067	158		52.033	26.017	17,344
Saunders	40,736	97		40.736	13.578	10,184
Total	512,105	636		85.351	51.210	32,006

BITUMINOUS COAL FIELD

Cascade	194,441	261		38.888	19.444	12,963
Crowsnest	1,400,802	1,833	350.200	116.733	18.677	15,393
Highwood	10	6				
Mountain Park	810,442	811	202.610	101.305	54.029	30,016
Nordegg	151,106	200	151.106	151.106	37.776	25,184
Total	2,556,801	3,111	284.089	98.338	24.584	18,394

SUMMARY

Domestic	2,449,199	3,709	306.150	97.968	37.109	24,739
Sub-Bituminous	512,105	636		85.351	51.210	32,006
Bituminous	2,556,801	3,111	284.089	98.338	24.584	18,394
Total	5,518,105	7,456	324.594	96.808	30.656	21,725

THE MINES BRANCH

Classification of Accidents according to output of mines which produced during the year 1939:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	From 300,000 tons	Total
Fatal	1	1	2	2	3	2	2	5	2	17
Serious	5	5	2	13	35	4	10	7	9	57
Slight	..	..	..	18	..	38	54	19	19	180
Total	6	6	4	33	55	4	50	66	30	254
Tons of coal produced per accident:										
Fatal	56,675	53,220	408,618	376,812	..	..	332,056	222,971	333,526	324,594
Serious	136,645	62,864	66,496	..	..	..	66,411	159,295	74,117	96,808
Slight	27,329	53,220	45,402	32,298	123,623	17,476	20,635	35,108	35,108	30,656
Total	9,446	22,774	26,610	24,765	20,553	123,623	13,282	16,392	22,235	21,724

FATAL ACCIDENTS

Angelo Fillipuzzi, miner, age 51, on May 15th, in the mine operated by the West Canadian Collieries, Ltd., Bellevue, caused by a fall of rock from the roof at 4 pillar off 76, 7 level. Killed instantly.

Fred Petrie, driver, age 29, on May 18th, in the mine operated by Hillcrest Collieries, Ltd. Hillcrest, caused by his falling between 8th and 9th cars of a 10 car trip, crushing his hips. He died in hospital several hours later.

James D. Evans, fireboss, age 51, on May 27th, in the mine operated by the Elgin Coal Co., Ltd., Drumheller, caused by a fall of rock on the entry striking him behind right shoulder and forcing him against a loaded car, causing injuries to ribs on right side, from the effects of which he died on June 1st.

Charles Hogg, fireboss and driver, age 48, on June 20th, in the mine operated by the Lethbridge Co-operative Mines Association, Ltd., Lethbridge. Hogg was taking out a barrel of water loaded on a mine car and drawn by a horse. The barrel of water apparently caused the car to tip up and caught him against the roof, causing dislocation of the vertebrae and injuring the spinal cord. Death resulted on June 21st.

Alex Puchko, miner, age 50, on June 22nd, in the mine operated by Klapstein & Opalinski, Edmonton South, caused by a fall of rock at the coal face, pinning him underneath and causing internal injuries, from which he died before reaching the surface.

A. B. Whipple, miner, age 67, on July 18th, in the mine operated by the Brazeau Collieries, Ltd., Nordegg, caused by hitting his knee with an axe when making a wedge on a block of timber, and blood poisoning set in, from the effects of which he died in hospital on August 18th.

Ferdinand Mary, brakeman and chute bucker, age 37, in the mine operated by the International Coal & Coke Co., Ltd., Coleman, on July 19th, caused apparently by his falling off a moving trip and slipping under the fifth car, where he was found. He died the same day.

James E. Main, machineman, age 39, on September 13th, in the mine operated by the Hy-Grade Coal Co., Ltd., Drumheller, caused by a fall of rock at face, killing him instantly.

Joe Stafford, electrician and mechanic, age 35, on September 13th, in the mine operated by the Hy-Grade Coal Co. Ltd., Drumheller, caused by a fall of rock at the face while machine was being sumped, which crushed him under same, causing his death.

Idar Mikalson, dumpman, age 23, on September 25th, in the mine operated by the Kleenburn Collieries, Ltd., Eyremore, caused by a fall from a rock dump. Evidently he was pulled over dump with the car and fell a distance of over 100 feet at rock dump, receiving injuries from which he died while being carried on stretcher.

Joseph L. Duray, miner, age 45, on October 13th, in the mine operated by the West Canadian Collieries, Ltd., Bellevue, caused by a fall of rock which knocked out props, hitting him and striking his head, smashing back of same, also other injuries, causing his death.

William Hewko, plate-man, age 45, on October 25th, in the mine operated by the Western Gem & Jewel Collieries, Ltd., Rosedale Station, caused by a fall of rock and coal at the face knocking his head down on the plate, causing severe injuries, from the effects of which he died while being carried from the mine.

William E. Ferguson, mine labourer, age 35, on December 4th, in the mine operated by Joseph Haden, Castor, caused by a fall of clay in strip pit, which hit him, partially burying him and causing injuries from which he died after being extricated.

Emil Sawchuk, miner, age 53, on December 11th, in the mine operated by the Mountain Park Coals, Ltd., Mountain Park, caused by a fall of coal in pillar striking him, fracturing his skull and causing multiple body injuries, from which he died.

D. Spinazzi, miner, age 46, James Maddams, miner, age 28, and John Burnside, miner, age 42, on December 30th, in the mine operated by the Cadomin Coal Co., Ltd., Cadomin, caused by gas being forced through battery where the men were working at $3\frac{1}{2}$ off 5, top split, 7 back angle, death being by asphyxiation.

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1939:

Months	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January		1	4	5		1	13	14	19
February		1	5	6		4	11	15	21
March		1	1	2		4	15	19	20
April		2	2	4		3	8	11	13
May						5	8	13	8
June		3	3	6		2	3	11	14
July		3	3	6		1	7	10	13
August		4	4	8		4	14	18	22
September	1	3	4	7		7	17	26	30
October		2	3	5		12	16	30	35
November		1	3	4		6	11	17	21
December	1	1	5	7	4	6	21	31	38
Total	2	6	36	44	15	51	144	210	254

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND UNDER GROUND
DURING THE YEAR 1939:

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Haulage		1	5	6	3	9	33	45	51
Fall of rock	1			1	7	8	22	37	38
Fall of coal					1	22	20	43	43
Fall of coal and rock							1	1	1
Loading coal						5	13	18	18
Loading rock						2		2	2
Coal-cutting machine						1	4	5	5
Asphyxiated by Methane gas								3	3
Tipple machinery	4	8	12	24					12
Coupling cars		2	2	4		1	4	5	7
Box cars		2	2	4					2
Slipped and fell	1	1	6	8	1	1	8	9	17
Timbering						1	17	19	19
Shot firing						1	3	4	4
Miscellaneous					13	13	2	17	32
Total	2	6	36	44	15	51	144	210	254

THE MINES BRANCH

Accidents occurring in the Province above and under ground for the year 1939,
classified according to the areas in which they occurred:

DOMESTIC

Area	Above Ground			Under Ground			Total Above and Under Ground
	Fatal	Serious	Slight	Fatal	Serious	Slight	
Brooks	1						1
Carbon							1
Castor	1				1		1
Champion							3
Drumheller				2	4	26	47
Edmonton				2	1	8	16
Lethbridge			2	2	15	13	22
Pembina			4	4	4	3	1
Redcliff						3	3
No Area					2	2	2
Total	2	8	10	6	25	58	99

SUB-BITUMINOUS

Coalspur			3	3		3		3		6
Prairie Creek			2	2		2		4		6
Saunders			2	2		1		2		4
Total			7	7		6		9		16

BITUMINOUS

Classification of Accidents according to the Coal Fields in which they occurred:
DOMESTIC

Cause	Above Ground			Under Ground			Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	
Rope Haulage, hand caught in sheave			1	1			1
Rope Haulage, pin slipped catching thumb			1	1			1
Rope Haulage, hand caught with rope			1	1			1
Horse Haulage, clearing track, hand hit with rock				1	1		2
Horse Haulage, caught by collision with standing car				1	1		1
Horse Haulage, caught between car and roof				1	1		1
Horse Haulage, caught with runaway car				1	1		1
Horse Haulage, car rolled on foot				1	1		1
Horse Haulage, hand caught between car and timber				1	1		1
Manual Haulage, sprained side turning car on turntable				1	1		1
Manual Haulage, sprained himself, rearilling car				1	1		1
Manual Haulage, hand caught while spragging car				1	1		1
Manual Haulage, thumb caught while spragging car				1	1		1
Manual Haulage, while stopping car fractured wrist				1	1		1
Manual Haulage, car jumped track and caught his hand				1	1		1
Manual Haulage, rearilling car, sprained himself				1	1		1
Manual Haulage, while rearilling car, foot caught between car and timber				1	1		1
Fall of rock, hit by falling rock				1	1		1
Fall of rock at face of room				1	1		1
Fall of rock on entry, while pulling down rock				1	1		1
Fall of rock while timbering face				1	1		1
Fall of rock, fall off surface rock hit him in strip-pit				1	1		1
Fall of coal in pillar				1	1		1
Fall of coal in room				1	1		1
Fall of coal at face of entry				1	1		1
Fall of rock and coal				1	1		1
Fall of coal at working face				1	1		1
Loading coal, lump dropped on foot				1	1		1
Loading coal, twisted arm				1	1		1
Loading coal, piece of rock fell on foot				1	1		1
Loading rock, piece fell on foot				1	1		1
Timbering, post fell on foot				1	1		1
Timbering, hit by hammer while timbering				1	1		1
Coal-cutting machinery, machine jumped out of cut and hit ankle				1	1		1
Coal-cutting machinery, while cutting with machine was hit with rock				1	1		1
Coal-cutting machinery, caught against rib				1	1		1

DOMESTIC—Continued

Cause	Above Ground			Under Ground			Total Above and Under Ground	
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total
Coal-cutting machinery, foot slipped off running board and caught between wheel and rail			1	1			1	1
Tipple machinery, material hit hand on picking table						1	1	1
Conveyor machinery, finger caught between pan and timber					1		1	1
Coupling cars, squeezed between car and roof timber						1	1	1
Uncoupling cars, foot caught							2	2
Shot firing, hit with piece of flying material						1	1	1
Shot firing, entered too soon after shooting, affected by smoke								2
Shot firing, while firing several shots he failed to get away before the first shot went off					1		1	1
Slipped and fell							1	1
Miscellaneous, slipped and fell against car							2	2
Miscellaneous, hit finger with axe							1	1
Miscellaneous, while mining, pick pierced foot							1	1
Miscellaneous, tripped and fell							1	1
Miscellaneous, slipped and coat sleeve caught in pump							1	1
Miscellaneous, rail fell on hand							1	1
Miscellaneous, slipping jack hit finger							2	2
Miscellaneous, fell on rail while pulling switch box							1	1
Miscellaneous, fell from tipple							1	1
Miscellaneous, fell on stairway							1	1
Miscellaneous, coal rolled on foot							1	1
Miscellaneous, hit with draw-bar while straightening it							1	1
Total	2	8	10	6	25	58	89	99

	Total	7	7	6	3	9	16
Miscellaneous, lump of coal fell on foot in box car		1	1				1
Miscellaneous, struck on hand by shovel		1	1				1
Miscellaneous, slipped and fell while pushing car		1	1				1
Miscellaneous, burned with hot flue dust in combustion chamber of boiler		1	1				1
BITUMINOUS							
Rope Haulage, car jumped and caught his leg							
Rope Haulage, caught between cars							
Rope Haulage, fell off car							
Rope Haulage, hand caught between rope and drum							
Rope Haulage, hand caught between rope and drum							
Rope Haulage, hand caught between rope and drum							
Rope Haulage, hand caught between rope and drum							
Rope Haulage, hand caught between rope and drum							
Rope Haulage, hand caught between rope and drum							
Horse Haulage, while spragging cars, car wheel ran over finger							
Horse Haulage, thumb caught while spragging car							
Horse Haulage, thumb caught while spragging car							
Horse Haulage, car wheel went over foot							
Horse Haulage, caught between car and post							
Horse Haulage, caught with tail chain when horse turned around							
Horse Haulage, fell between cars on trip							
Horse Haulage, fell between cars of trip							
Horse Haulage, arm caught between top of car and roof							
Horse Haulage, arm caught between car and timber							
Horse Haulage, thrown from car as it jumped the track							
Horse Haulage, caught between top of car and roof							
Horse Haulage, dragged along track when horse bolted							
Horse Haulage, caught between cars when derailed							
Locomotive Haulage, apparently fell under the trip							
Manual Haulage, caught between cars							
Manual Haulage, caught between car and prop							
Manual Haulage, sprag caught foot							
Manual Haulage, car derailed and caught foot							
Manual Haulage, hand caught between car and roof							
Manual Haulage, fell against car							
Manual Haulage, slipped and twisted his back							
Manual Haulage, fell against car							
Manual Haulage, slipped and fell on knee							
Manual Haulage, arm caught under wheel of car							
Fall of rock							
Fall of rock at face							
Fall of rock on entry							
Fall of rock in pillar							
Fall of coal at face of entry							
Fall of coal on entry							
Fall of coal in pillars							
Fall of coal at face of room							
Fall of coal							

BITUMINOUS—Continued

Miscellaneous, hit with axe												
Miscellaneous, tripped and fell												
Miscellaneous, fell against car												
Miscellaneous, horse stepped on foot												
Miscellaneous, finger caught in crushing machine												
Miscellaneous, hit thumb with hammer												
Miscellaneous, kicked by horse												
Total		6	21	27	9	20	83	112	139			
SUMMARY												
Domestic		2		8	10	6	25	58	89	99		
Sub-Bituminous			6	7	7	6	20	3	9	16		
Bituminous			21	27	9	27	83	112	139	139		
Total		2	6	36	44	15	51	144	210	254		

Accidents during 1939, classified according to the Mine in which they occurred:

DOMESTIC COAL FIELD

Name of Operator	Area	Above Ground			Under Ground			Total Above and Under Ground
		Fatal	Serious	Light	Fatal	Serious	Light	
Kleenburn Collieries Ltd.	Brooks	1	1	1	1	1	1	1
Balogh Coal Co. Ltd.	Castor	1	1	1	1	1	1	1
Fred Ewing & Partners	Castor	1	1	1	1	1	1	1
J. Haden	Castor	1	1	1	1	1	1	1
Pickering, Ordge & Williams	Champion	1	1	1	1	1	1	1
A. Cattoni	Drumheller	1	1	1	1	1	1	1
A. M. S. McGaw	Drumheller	1	1	1	1	1	1	1
Rosedale Collieries Ltd. (Rosedale)	Drumheller	1	1	1	1	1	1	1
Midland Coal Mining Co. Ltd.	Drumheller	1	1	1	1	1	1	1
Rosedale Collieries Ltd. (Star Mine)	Drumheller	1	1	1	1	1	1	1
Newcastle Collieries Ltd.	Drumheller	1	1	1	1	1	1	1
Wayne Coal Producers Association Ltd.	Drumheller	1	1	1	1	1	1	1
Maple Leaf Minerals Ltd.	Drumheller	1	1	1	1	1	1	1
Elgin Coal Co. Ltd.	Drumheller	1	1	1	1	1	1	1
Brilliant Coal Co.	Drumheller	1	1	1	1	1	1	1
Empire Collieries Ltd. (Willow Creek)	Drumheller	1	1	1	1	1	1	1
Empire Collieries Ltd. (East Coulee)	Drumheller	1	1	1	1	1	1	1
The Hy Grade Coal Co. Ltd.	Drumheller	1	1	1	1	1	1	1
Monarch Coal Mining Co., Ltd.	Drumheller	1	1	1	1	1	1	1
Murray Collieries Ltd.	Drumheller	1	1	1	1	1	1	1
Western Gem & Jewel Collieries Ltd.	Drumheller	1	1	1	1	1	1	1
Wayne Combine Collieries Company	Edmonton	1	1	1	1	1	1	1
Ottewell Coal Company	Edmonton	1	1	1	1	1	1	1
Great West Coal Co. Ltd.	Edmonton	1	1	1	1	1	1	1
Marcus Coals Ltd.	Edmonton	1	1	1	1	1	1	1
James Moran & Sons	Edmonton	1	1	1	1	1	1	1
Ellerslie Collieries	Edmonton	1	1	1	1	1	1	1
George Abel (Twin City Mine)	Edmonton	1	1	1	1	1	1	1
Beverly Coal Co. Ltd.	Edmonton	1	1	1	1	1	1	1
Klapstein & Opolanski	Edmonton	1	1	1	1	1	1	1
Kent Coal Co. Ltd.	Lethbridge	1	1	1	1	1	1	1
Razzolini & Bridaroli	Lethbridge	1	1	1	1	1	1	1
Lund, Nelson & Haggland	Lethbridge	1	1	1	1	1	1	1
Lethbridge Co-operative Mines Association Ltd.	Lethbridge	1	1	1	1	1	1	1
Lethbridge Collieries Ltd. (Lethbridge)	Lethbridge	1	1	1	1	1	1	1
Lethbridge Collieries Ltd. (Shaughnessy)	Lethbridge	1	1	1	1	1	1	1
Lakeside Coals Ltd. (Wabamun)	Pembina	1	1	1	1	1	1	1
Gunderson, Brick & Coal Co. Ltd.	Redcliff	1	1	1	1	1	1	1
Stanley Pliskina & Partners	No Area	1	1	1	1	1	1	1
		2	8	10	6	25	58	99
	Total							

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SUB-BITUMINOUS COAL FIELD

BITUMINOUS COAL FIELD

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THE MINES BRANCH

LIST OF PROSECUTIONS UNDER THE MINES ACT FOR THE YEAR ENDING DECEMBER 31, 1939

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Illegal Mine	Telephone lineman out of work	Operating a mine without manager or overman and mining coal without being in possession of a miner's certificate	Convicted	Fined \$10.00 and costs	\$ 9.00
Illegal Mine	Farmer	Entered the workings of a mine near Taber without it being examined by a competent person	Convicted	Fined \$15.00 or 15 days	10.50
Illegal Mine	Farmer	Entered the workings of a mine near Taber without it being examined by a competent person	Convicted	Fined \$1.00 .....	..
Illegal Mine	Farmer	Operated a mine near Taber without appointing a manager or overman as required by the Act	Convicted	Fined \$5.00 and costs	4.50
Brilliant Coal Company	Miner	Did unlawfully remove explosives from the mine premises without authority	Convicted	Fined \$2.00 or 10 days .....	..
Illegal Mine	Farmer	Operated a mine near Taber without appointing a manager or overman as required by the Act	Convicted	Fined .....	..
West Canadian Coll., Ltd., Greenhill Mine	Miner	Did have on his person underground in the mine lucifer matches on March 20, 1939	Convicted	\$1.00 and costs or 7 days	3.50
West Canadian Coll., Ltd., Greenhill Mine	Miner	Did have on his person underground in the mine lucifer matches on March 20, 1939	Convicted	\$1.00 and costs or 7 days	3.50
Mountain Park Coals, Ltd.	Miners 2, Timbermen 5	They did ride on mine cars without permission of manager or overman on the 2nd day of August, 1939, jump off a trip while same was in motion in contravention of Rule 11, Sec. 156	Convicted	\$10.00 each	1.15
International Coal & Coke Co., Ltd.	Timber packer	That he did on the 2nd day of August, 1939, jump off a trip while same was in motion in contravention of Rule 11, Sec. 156	Convicted	\$5.00 and costs or 7 days	6.70
Sentinel Coal Company	Overman	Taking electric detonators which were not carried in an approved case, as required by Sec. 139 (18)	Convicted	\$1.00 and costs or 7 days	4.00
Lethbridge Collieries, Ltd. (Standard Mine)	Miner	Possessing tobacco, cigarette stub in closed light mine	Convicted	\$3.00 or 7 days	4.20
Lethbridge Co-Operative Mines Association, Ltd.	Miner	Possessing 2 matches in a closed light mine	Convicted	\$3.00 or 7 days	3.50
Lethbridge Collieries, Ltd. (Standard Mine)	Miner	Possessing a match in a closed light mine	Convicted	\$3.00 or 7 days	3.50
Wm. Ulmer	Farmer	Operating a mine illegally	Convicted	\$50.00 or 90 days	3.75
Joseph Haden	Operator	Operating a strip pit without authority from Chief Inspector of Mines	Convicted	\$2.00 and costs	4.50

NUMBER OF MINES OPENED, ABANDONED AND RE-OPENED ACCORDING TO AREAS AND KIND OF COAL, DURING THE YEAR

Area	Area Number	Character of Coal	No. of Mines in operation Dec. 31, '39	Mines opened during the year	Mines re-opened during the year	Mines closed but not abandoned	Mines abandoned during the year	Name and Address of District Inspector of Mines
Ardley	1	Domestic	12			1		
Big Valley	2	Domestic	4					
Camrose	5	Domestic	8					
Carbon	6	Domestic	12					
Castor	8	Domestic	35	1	1	3		
Edmonton	15	Domestic	20	5		2	4	John Crawford, 401 Terrace Bldg., Edmonton, Alta. Tel. No. 916480.
Tofield	42	Domestic	4					
Wetaskiwin	45	Domestic	5	1			1	
Brooks	3	Domestic	2					
Champion	9	Domestic	8	1			1	
Lethbridge	20	Domestic	15					
Magrath	21	Domestic	1					
Milk River	22	Domestic	4					
Pakowki	28	Domestic	4					
Redcliff	34	Domestic	2					
Taber	41	Domestic	12			2		
Coalspur	11	Sub-Bituminous	6					Thomas Horne, Edson, Alta.
Mountain Park	24	Bituminous	4					
Pembina	31	Domestic	4					2 Tel. No. 35,
Prairie Creek	33	Sub-Bituminous	2					Residence.
Crowsnest	12	Bituminous	10			1		
Pincher	32	Sub-Bituminous	2					E. H. Morgan, Blairmore, Alta. Tel. No. 70.
Carbon	6	Domestic	4	1		1		
Cascade	7	Bituminous	2					
Drumheller (Wayne)	14	Domestic	9					W. G. Heeley, New Court House Building.
Gleichen	17	Domestic	3					
Highwood	19	Bituminous	1	1				
Morley	23	Sub-Bituminous	1					Calgary, Alta.
Nordegg	25	Bituminous	1					Tel. No. M842-84.
Pekisko	30	Sub-Bituminous	5					
Saunders	36	Sub-Bituminous	2			1		
Drumheller	14	Domestic	19	1		1		J. T. Burton, Drumheller, Alta.
Gleichen	17	Domestic	3					
Sheerness	38	Domestic	13	1		2		Tel. No. 413.
Edmonton	15	Domestic	14				2	
Halcourt	18	Domestic	6			1		
Pakan	27	Domestic	1			1		2 A. B. Hunter,
Whitecourt	46	Domestic	1					Edmonton, Alta.
Rochester	35	Domestic	2	2		1	1	Tel. No. 916415.
Sexsmith	37	Domestic	1					
No Area		Domestic	5	2		1		
	Total		269	16	1	21	15	

In addition to the above, Mr. A. B. Hunter, 10898 75th Street, Edmonton, is acting in the capacity of Assistant Chief Inspector of Mines, Telephone No. 72212.

THE MINES BRANCH

BOARD OF EXAMINERS

The Provincial Board of Examiners during the year 1939 consisted of the following:

As representing:

- (a) The Mine Inspectorate:
Andrew A. Millar, Chief Inspector of Mines.
- (b) Managers:
A. C. Dunn, James Cumberford.
- (c) Working Miners:
William Lammie, Evan Morgan.
Secretary, A. B. Hunter.

Examinations during the year were held as follows:

For third class at the following centres: Canmore, June 6; Cadomin, May 9 and 10; Rosedale, May 9 to 12; Edmonton, May 9 to 11; Lethbridge, May 9 and 10; Blairmore, May 9 to 12; Drumheller, May 9 to 12.

For first and second class on June 6, 7 and 8 at Edmonton, Drumheller, Lethbridge, Blairmore and Canmore.

For mine surveyors on June 8 at Edmonton, Drumheller and Lethbridge.

Ten candidates presented themselves for examination for first class certificates, of whom four were successful. This included one candidate for supplementary examination, who was successful.

Thirty-seven candidates presented themselves for examination for second class certificates, of whom fifteen were successful. This included one candidate for supplementary examination, who was successful.

Eighty-two candidates presented themselves for examination for third class certificates, of whom sixty were successful.

Four candidates presented themselves for examination for mine surveyors' certificates, two of whom were successful.

Under the provisions of The Mines Act, 1939, which became effective July 1st, 1939, the Minister appointed a Board of Examiners for the examination of candidates for certificates of competency as Mine Electricians. This Board consists of Mr. A. B. Hunter, a District Inspector of Mines, as Chairman, and Mr. Burton Tait, the Electrical Inspector of Mines, as the other member of the Board.

During the Fall, examinations for mine electricians' certificates were held as follows: Edmonton, September 25 and November 4; Nordegg, on October 11; Canmore and Calgary, on October 13; Blairmore, on October 16 and 17; Lethbridge, on October 19, 20 and 21; Drumheller, on October 23, 25 and 26; Cadomin, on November 20 and 21; and Carbon, on December 4.

One hundred and three candidates presented themselves for mine electricians' certificates, of whom eighty-three were successful.

The successful candidates for all certificates are in the list following herewith:

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1939
FIRST CLASS

Name	Address	Cert. No.	Date of Issue
Horne, James	Cadomin	21	21- 7-39
MacKinnon, Hugh G.	Canmore	20	20- 7-39
McDonald, Leslie M.	Bellevue	23	28- 7-39
Potter, Idwal N.	Willow Creek	22	25- 7-39

SECOND CLASS

Crawford, Hugh	Lethbridge	85	12- 8-39
Curry, John	Hillcrest	86	12- 8-39
Evans Howell (Duplicate)	Luscar	77	23- 3-39
Erikson, Gustaf W.	Blairmore	81	25- 7-39
Melling, Joseph	Lethbridge	82	25- 7-39
Mills, Basil	Shaughnessy	84	12- 8-39
Price, Stanley R.	Blairmore	79	25- 7-39
Peta, Julius	Hardieville	90	23-10-39
Rochester, Jasper	Hinton	78	20- 7-39
Sinoski, Steve	Edmonton South	80	25- 7-39
Sarsfield, William	East Coulee	83	28- 7-39
Simmons, Harry	Mountain Park	89	14- 9-39
Tyler, Harold	Lethbridge	87	12- 8-39
Webster, James S.	Shaughnessy	88	17- 8-39

THIRD CLASS

Name	Address	Cert. No.	Date of Issue
Allan, William H.	Drumheller	347	8- 6-39
Andrew, Alfred	Edmonton	355	8- 6-39
Briggs, William A. Jr.	Drumheller	346	8- 6-39
Bachynski, John	Newcastle	348	8- 6-39
Blake, Robert	Bellevue	391	22- 8-39
Curry, John	Hillcrest	368	22- 6-39
Cherrille, Orlando	Edmonton	371	22- 6-39
Campkin, Robert	Lousana	384	20- 7-39
Cooke, Charles R.	Willow Creek	395	10- 9-39
Dolan, Iggie	Three Hills	361	22- 6-39
Evans, Evan	Taber	362	22- 6-39
Fraser, William B. Jr.	Coleman	350	8- 6-39
Green, William J.	Dinant	343	13- 2-39
Gill, Peter	Thorsby	352	8- 6-39
Griffiths, Edward	Foothills	367	22- 6-39
Gotheridge, Charles F.	Round Hill	370	22- 6-39
Grubisich, Walter	Hinton	375	4- 7-39
George, Pete	Three Hills	386	25- 7-39
Honeyman, Maurice R.	Robb	369	22- 6-39
Heidel, Herbert G.	Priddis	401	12-10-39
Inverarity, William	Rosebud	382	4- 7-39
Kane, Frank	Hinton	344	3- 4-39
Koshman, Alexander T.	Shaughnessy	372	22- 6-39
Kozmeniuk, Steve	East Coulee	378	4- 7-39
Lesson, Steve	Bellevue	354	8- 6-39
Loula, William	Bellevue	374	22- 6-39
Luuni, Louis	Hillcrest	376	4- 7-39
Melson, Philip	East Coulee	359	8- 6-39
Marconi, John	Coleman	363	22- 6-39
Marshall, Albert C.	Delia	365	22- 6-39
Mitchell, David	Luscar	380	4- 7-39
Martin, Bert W.	Alexo	385	25- 7-39
Madsen, Soren	Mountain Park	406	30-11-39
McCullioch, Archibald	Coleman	349	8- 6-39
MacQuarrie, Hector	Drinnan	364	22- 6-39
McLaughlin, Michael	Luscar	403	30-10-39
Nelson, John	Rosedale Station	356	8- 6-39
Parobchak, F.	Carbondale	353	8- 6-39
Plesuk, William	Beverly	357	8- 6-39
Price, John C.	Coleman	377	4- 7-39
Rynning, James W.	Rowley	383	4- 7-39
Reissig, Erich	Willow Creek	388	12- 8-39
Robbins, John	Drumheller	390	17- 8-39
Richardson, John	Camrose	393	1- 9-39
Reynolds, Arthur E. V.	Mercoal	404	10-11-39
Scarpino, Eugene M.	Rosedale	389	14- 8-39
Swanson, Matthew	East Coulee	392	1- 9-39
Smith, Charles E.	Rosebud	396	12- 9-39
Steen, Alf. C.	Rosedale Station	398	16- 9-39
Samis, Kenneth E.	Namao	402	18-10-39
Tennant, James	Mountain Park	358	8- 6-39
Thomson, John D.	Drinnan	360	8- 6-39
Thomas, David R.	Luscar	379	4- 7-39
Tinsley, Albert J.	Rosedale Station	381	4- 7-39
Unsworth, George	Scapa	399	12-10-39
Vitaly, Mike L.	Namao	351	8- 6-39
Vanbesien, Jules	Champion	366	22- 6-39
Van Duncombe, Walter	Taber	394	12- 9-39
Wolff, Alfred	Willow Creek	387	12- 8-39
Yorko, Simon A.	Shaughnessy	345	8- 6-39
Yard, Lloyd Geo.	Trochu	373	22- 6-39
Zaputil, Frank W.	Rosedale	397	12- 9-39

MINE SURVEYOR

Livingstone, Robert D.	Lethbridge	11	25- 7-39
Morris, William	Edmonton	12	1- 8-39

MINE ELECTRICIAN

Arndt, Joseph H.	Drumheller	61	30-10-39
Biamonte, Antonio	Clover Bar	1	25- 9-39
Brotherston, Robert A.	Clover Bar	2	25- 9-39
Broderick, Gideon	Canmore	14	30-10-39
Blas, Emile	Blairmore	28	30-10-39
Blake, Gwilym	Blairmore	29	30-10-39
Bell, Harold	Lethbridge	39	30-10-39
Berlando, Tully	Aerial	49	30-10-39

THE MINES BRANCH

Name	Address	Cert. No.	Date of Issue
Buzenus, Christopher	Drumheller	51	30-10-39
Belley, Thomas	Mountain Park	76	24-11-39
Conlin, Richard	Drumheller	50	30-10-39
Clark, James	East Coulee	59	30-10-39
Cartledge, Harold L.	Edmonton	67	9-11-39
Callan, Lawrence	Cadomin	78	24-11-39
Devonshire, George H.	Canmore	15	30-10-39
Dibblee, Edwin W.	Coleman	26	30-10-39
Dutfield, George	Coleman	27	30-10-39
Dore, Vincent F.	Coal Valley	70	24-11-39
Dolan, Steve	Three Hills	81	21-12-39
Dolan, Iggy	Three Hills	82	21-12-39
Fraser, James	Coleman	31	30-10-39
Ford, John C.	Drumheller	53	30-10-39
Freypons, John	East Coulee	60	30-10-39
Fox, Alfred	Carbon	83	21-12-39
Gilchrist, J. N.	Wabamun	5	27- 9-39
Grover, Henry	Calgary	16	30-10-39
Gregor, Victor	Bellevue	17	30-10-39
Godfrey, Wiley R.	Coleman	18	30-10-39
Gidman, Joseph H.	Taber	40	30-10-39
Grant, Alexander	Rosedale	47	30-10-39
Horne, Robert	Drinnan	4	27- 9-39
Hunter, James	Edmonton	8	27- 9-39
Hallworth, Frederick W.	Bellevue	23	30-10-39
Henderson, John R.	Nacmine	46	30-10-39
Herman, Martin	Drumheller	48	30-10-39
Higgins, William	Drumheller	52	30-10-39
Hansen, Knud	Midlandvale	55	30-10-39
Iwasiuk, Harry	Wabamun	7	27- 9-39
King, William G.	Lethbridge	37	30-10-39
King, Samuel D.	Iron Springs	41	30-10-39
Lambert, Louis J.	Edmonton	3	27- 9-39
Lister, Alexander B.	Edmonton	9	27- 9-39
Lawrence, Charles G.	Hillcrest	19	30-10-39
Lain, John T.	Foothills	69	24-11-39
Mitchell, Robert	Coleman	20	30-10-39
Murdoch, Stewart	Coleman	21	30-10-39
Millett, Fernley E.	Blairmore	22	30-10-39
Montalbetti, Ralf A.	Coleman	32	30-10-39
Milesom, Thomas H.	Lethbridge	34	30-10-39
Milner, Robert	Lethbridge	44	30-10-39
Munro, James H.	Lethbridge	45	30-10-39
Murdoch, Horace	Rosedale	56	30-10-39
Marsh, Cyril	Drumheller	57	30-10-39
Milo, Michael	East Coulee	65	30-10-39
Mellett, Percy M.	Sterco	71	24-11-39
Mathison, Matthew	Robb	72	24-11-39
Miller, William J.	Cadomin	79	24-11-39
MacDonald, Edwin M.	Bellevue	24	30-10-39
McKay, Fred	Blairmore	25	30-10-39
McGregor, Hector	Lethbridge	36	30-10-39
McMahon, James	Lethbridge	38	30-10-39
McLeod, Fraser	Mercoal	74	24-11-39
Nelson, Cais E.	Lethbridge	42	30-10-39
Oliphant, Cyril	Carbon	80	21-12-39
Porter, Glen	Luscar	77	24-11-39
Reishus, Odin K.	East Coulee	63	30-10-39
Raisbeck, Luke	East Coulee	64	30-10-39
Root, Clarence	Robb	73	24-11-39
Smith, Eric W.	Nordegg	12	30-10-39
Shanks, David S.	Nordegg	13	30-10-39
Sbora, John	Drumheller	54	30-10-39
Speight, James A.	Midlandvale	58	30-10-39
Skow, Arthur M.	Drumheller	62	30-10-39
Stacey, Alfred R.	Hinton	68	30-10-39
Vasek, Steven	Coleman	33	30-10-39
Wilson, Glen H.	Edmonton	6	27- 9-39
Waters, William J.	Saunders	10	30-10-39
Wilson, John	Nordegg	11	30-10-39
Warn, Roland	Bellevue	30	30-10-39
Webster, James S.	Shaughnessy	35	30-10-39
Wyatt, Douglas	Diamond City	43	30-10-39
Weston, Clarence E.	Rosedale	66	30-10-39
Watson, James S.	Mountain Park	75	24-11-39

List of Names of Holders of First Class Certificates issued by the Government of the Province of Alberta to December 31, 1939:

Name	Address	Cert. No.	Date of Issue
*Addie, W.	Lundbreck	19	25- 8-03
Aspinall, Francis	Vancouver, B.C.	22	1- 3-09
Ashburner, Edward	Lethbridge	40	9-12-10
*Alderson, Fred D.	Hosmer, B.C.	52	27- 9-11
Allen, Peter	Wayne	72	5-11-12
*Brown, J.	Calgary	18	24- 8-03
*Bastian, J.	Taber	43	19- 7-04
Broome, G. H.	New Zealand	46	28-11-04
Bradshaw, G. B.	Nanaimo, B.C.	61	16- 5-05
Baxter, Andrew W.	Calgary	47	22-12-10
Barnes, Arthur W.	Montana	74	7-11-12
*Black, Ernest D.	Nova Scotia	84	29- 7-13
Brydon, Andrew D.	England	4	17- 9-14
*Brownrigg, John H.	Bankhead	21	17- 7-17
Blake, Henry	Bellevue	25	27- 7-17
Brown, Hugh R.	Carbon	26	28- 6-18
Bilson, George H.	Rhodesia	27	28- 6-18
Brown, R. J.	Montana	30	3- 7-18
Brown, Thomas	Edmonton	42	5- 9-19
Blair, John	Picture Butte	55	24- 7-24
Barclay, William	Drumheller	11	31- 7-36
Burton, John T.	Drumheller	13	8- 8-36
Collins, W. F.	Blairmore	24	31-10-03
*Colville, A.	Edmonton	52	19- 1-05
Coulthard, R. W.	Blairmore	8	19- 3-06
*Cunningham, G. F.	Edmonton	7	10- 1-08
Church, J. A. H.	Nova Scotia	11	23- 1-08
Coulthard, R. W.	Blairmore (duplicate)	24	11-10-09
*Crowder, James	Drumheller	38	24-12-09
*Christianson, Peter	Edmonton	48	21-12-10
Clyne, James	Edmonton	69	18- 3-12
Crowder, Harry	Drumheller	5	18- 9-14
*Callander, Ira C.	Pocahontas	13	12- 8-16
Cranston, Michael	Drumheller	35	2- 7-19
Coupland, Edward	Cadomin	56	24- 7-24
Crawford, Alexander	Edmonton	61	24- 7-25
Crawford, John	Edmonton	65	26- 7-26
Chavignaud, Louis G.	Edmonton	71	6- 8-27
Drinnan, R. G.	Edmonton	29	30- 1-04
*Dickson, G. H.	Coleman	3	31- 5-06
Dunn, A. C.	Edmonton	18	13- 1-09
*Darbyshire, J.	Bellevue	35	3-12-09
*Davidson, W. A.	Coleman	25	27-11-09
*Davis, David	Edmonton	62	28-11-11
Duggan, William H.	Victoria, B.C.	85	29- 7-13
deHart, Joseph B.	Calgary	86	29- 7-13
Dennis, Fred W.	Brooks	12	28-10-15
*Davidson, David	Bellevue	15	12- 8-16
Donaldson, Chris S.	Lethbridge	20	17- 7-17
Davies, Thomas O.	Calgary	22	17- 7-17
D'Altroy, A. C.	British Columbia	53	17- 8-23
Davidson, J. M.	Coalhurst	75	23- 7-29
Dutton, J. A.	Mountain Park	4	25- 7-32
Dalziel, Robert	Edmonton	8	29- 7-33
Donaldson, Adam G.	Shaughnessy	14	23- 8-37
*Evans, D.	Michel, B.C.	1	15-10-98
*Evans, D.	Michel, B.C. (duplicate)	14	11-12-02
Elliott, D.	Blairmore	20	13-10-03
Emmerson, C.	Bellevue	49	9- 1-05
Emmerson, J.	Frank	50	13- 4-05
*Ellis, W.	Champion	15	8- 1-09
Emerson, J.	Canmore	41	25- 8-19
Finlayson, J.	Bassano	30	10- 2-04
Flint, W. G.	Robb	56	13- 4-05
*Fraser, Norman	Edmonton	1	21-12-05
*Fraser, G. L.	Coleman	1	31- 5-06
*Ferguson, C. J.	Edmonton	23	17- 7-17
Foster, William	Robb	40	12- 8-19
France, Thomas	Priddis	44	8-10-19
Green, R.	Calgary	58	26- 4-05
Graham, C.	Prince Rupert, B.C.	7	27- 2-06
Givin, Homer H.	Virginia, U.S.A.	57	23-11-11
Gray, David Jr.	Washington, U.S.A.	65	4-12-11
Guernsey, F. W.	Vancouver, B.C.	80	18-12-12
Gotheridge, William T.	Round Hill	54	16- 7-24
Goodwin, William	Bellevue	12	4- 8-36
Hardie, W. D. L.	Lethbridge	2	15-10-98
*Hamilton, W. L.	Lethbridge	4	2-12-98
Hargreaves, James	East Coulee	9	25- 6-01
*Heathcote, Elijah	Coal Creek, B.C.	23	31-10-03

THE MINES BRANCH

List of Names of Holders of First Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Henrietta, Chas. M.	Byseville, Ohio	26	24-11-03
Hargreaves, James	East Coulee (duplicate)	48	9- 1-05
*Huntrods, E. S. F.	Taber	3	29-12-05
Hamilton, Robert	Priddis	4	3- 1-07
Horne, Robert	Coleman	12	7- 1-09
*Holden, James	Bankhead	14	7- 1-09
Horne, Thomas	Edson	6	26-12-07
*Harrison, Stephen	Lethbridge	16	11- 1-09
Hart, John	Edmonton	23	23- 3-09
Howells, Nathaniel	Edmonton	64	4-12-11
Hunter, A. B.	Edmonton	14	12- 8-16
Higgins, Alexander	Calgary	19	7- 7-17
Heeley, William G.	Calgary	36	3- 7-19
Hetherington, W. B.	British Columbia	38	9- 7-19
Howden, A. B.	Scotland	50	1- 8-21
Hamilton, Alan	Drumheller	52	17- 8-23
Hall, William E. G.	Lethbridge	58	20- 7-25
Hibbert, W. J.	Edmonton	79	10- 9-30
Hnatyshyn, A. C.	Luscar	6	22- 3-33
Hibbert, W. J.	Edmonton (duplicate)	7	29- 7-33
Horne, James	Cadomin	21	21- 7-39
*John, John	Fernie, B.C.	44	29- 4-04
Jones, Samuel A.	Nanaimo, B.C.	57	26- 4-05
Jones, David	Edmonton	67	27-11-11
*Johnson, Moses	Blairmore	79	14-11-12
*Jordan, William	Drumheller	11	9- 9-15
Jones, J. R. B.	Hinton	18	21- 7-38
Kerr, Alex.	Tonkin, B.C.	27	18-12-03
*Keith, Thos.	Taber	20	29- 1-09
Knox, Thos. K.	Coal Creek, B.C.	28	30-11-09
Kellock, George	Coleman	59	23-11-11
Kinsman, Alexander	Hosmer, B.C.	70	11- 5-12
Kellock, James	Coleman	76	8- 8-30
Little, John	Coalfields	5	2-12-98
Livingstone, Robert	Lethbridge	16	
Lewellyn, D. R.	Michel, B.C.	42	2- 7-04
Little, Wm. F.	Canmore	4	29-12-05
Lee, Robert J.	Estevan, Sask.	56	23-11-11
Leblanc, Ennie	Wayne	6	18- 9-14
Lindoe, Luke	Coleman	77	8- 8-30
*Morris, Jas. J.	Canmore	3	3-11-98
*Morris, Cyrus	Frank	12	13- 2-02
Mills, Thomas	Nanaimo, B.C.	35	2- 5-04
Manley, Henry Lewis	Fernie, B.C.	41	3- 6-04
*Morton, T. R.	Michel, B.C.	63	21- 7-05
*Marsh, John	Taber	6	1- 2-06
Moore, Samuel M.	Bankhead	26	27-11-09
Maxwell, Wm.	Pincher Creek	27	29-11-09
Millar, Andrew A.	Edmonton	54	23-11-11
Musgrove, William	Canmore	76	11-11-12
Marshall, John W.	Rosalind	78	13-11-12
Mather, Thomas	Edmonton	81	20- 7-13
Milne, Morgan C.	Pocahontas	83	14- 7-13
Morgan, Owen	Saunders	51	17- 8-23
Morris, William	Edmonton	1	26- 7-31
Millar, David	Mercoal	2	25- 8-31
Morgan, Evan H.	Blairmore	3	27- 9-31
Morgan, Thomas E.	Hillcrest	15	26- 8-37
*McEvoy, Jas.	Fernie, B.C.	17	1- 8-02
*McVicar, Samuel	Frank	59	26- 4-05
McLean, Donald	Ladysmith, B.C.	62	22- 5-05
*McMillan, J. H.	Vancouver, B.C.	17	12- 1-09
*McDonald, John R.	Edmonton	29	30-11-09
McLenhan, J. A.	Edmonton	39	13- 1-10
Macaulay, Donald A.	Drumheller	42	9-13-10
McCullough, James	Corbin, B.C.	41	17-12-10
McDonald, Duncan	Drumheller	60	23-11-11
*McKelvie, James	Nordegg	7	26-10-14
Macaulay, Angus G.	Drumheller	9	16- 8-15
McDonald, Hector S.	Belleview	17	7- 7-17
McLeod, John A.	Cadomin	18	7- 7-17
McDonald, Noble M.	Belleview	33	9- 7-18
McIntyre, J. J.	Coleman	39	25- 7-19
McGuckie, Thomas M.	Wayne	43	1-10-19
MacKinnon, Hugh G.	Canmore	20	20- 7-29
McDonald, Leslie M.	Belleview	23	27- 7-39
Nugent, Bernard	Edmonton	57	1- 8-24
O'Donnell, Thomas	Rosedale	61	28-11-11
Pearson, Robinson	Fernie, B.C.	11	19-11-01
*Parker, John L.	North Star	25	13-11-03
Pearson, R. N.	Frank	38	10- 5-04
Powell, John W.	Coleman	60	10- 5-05

List of Names of Holders of First Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Pitcher, Norman C.	Edmonton	75	11-11-12
Pickles, William	Edmonton	77	11-11-12
*Pavier, Evan L.	Edmonton	24	24-7-17
*Puckett, Owen L.	Robb	29	3-7-18
Pascoe, Thomas	Edmonton	78	8-8-30
Potter, Idwal N.	Willow Creek	122	25-7-39
*Quigley, Jas. S.	Hillcrest	21	1-2-09
Quigley, D. H.	Drumheller	28	28-6-18
*Reynolds, E. E.	Lethbridge	33	5-4-04
Richards, James A.	Edmonton	39	17-5-04
*Russell, Thos.	Victoria, B.C.	45	28-10-04
Raisbeck, Luke	Aerial	47	28-11-04
*Reed, Thomas	Northfield, B.C.	5	
Robertson, John	Drumheller	2	22-12-05
*Robertson, John	Lundbreck	9	18-1-08
*Richards, Clifton C.	Calgary	36	13-12-09
Russell, John	Round Hill	44	22-1-10
Reid, John C.	Oklahoma, U.S.A.	53	4-12-11
*Roberts, Edward I.	Edmonton	55	18-11-11
Reid, Adam H.	Oklahoma, U.S.A.	3	18-9-14
Russell, James	Lethbridge	8	8-12-14
Robert Louis P.	Blairmore	10	16-8-15
Ramsay, P. M.	Drumheller	34	12-11-18
Richards, Russell	Hillcrest	60	20-7-25
Rappell, Thomas	Canmore	17	1-9-37
*Smith, Frank B.	Edmonton	7	4-6-01
Stockett, Thos. R. Jr.	Nanaimo, B.C.	10	19-11-01
Simister, Chas.	Lundbreck	21	13-10-03
*Strachan, Robert	Fernie, B.C.	31	10-2-04
*Shepherd, F. H.	Victoria, B.C.	34	2-5-04
*Symons, C. C.	Coalfields	37	2-5-04
Stockett, Louis	Vancouver, B.C.	51	19-1-05
*Sharp, Alex.	Rossland, B.C.	53	22-2-05
Scott, Alex.	Edmonton	5	26-12-07
*Stirling, John T.	Scotland	8	10-1-08
Sparrow, Edwin	Tawatinaw	13	7-1-09
Scott, Andrew N.	Luscar	19	25-1-09
*Shone, Samuel	Coleman	33	2-12-09
Stevens, Leonard C.	Edmonton	31	2-12-09
Saville, Enoch O.	Taber	45	22-12-10
*Shaw, William	Edmonton	46	22-12-10
Stewart, Robert T.	Edmonton	50	12-1-11
Shanks, John	Nordegg	51	17-1-11
Stevenson, John	Scotland	68	6-12-11
Stevenson, William	Calgary	87	29-7-13
Shanks, David	Nordegg	16	4-11-16
Smith, Thomas E.	Montana	31	3-7-18
Stevenson, John	Hillcrest	46	26-7-20
Stewart, James M. Jr.	Nordegg	48	26-7-20
Sandino, J. A.	Drumheller	5	25-7-32
Smith, Terence	Driñana	10	1-8-35
Thorne, B. L.	Calgary	32	2-12-09
Thain, Harry S.	Lethbridge	34	2-12-09
Thomas, John I.	Edmonton	49	16-1-11
Thomas, Willis P.	Diamond City	58	23-11-11
*Thomas, Joseph D.	Passburg	66	4-12-11
*Turner, John T.	Coalhurst	49	1-8-21
Tennant, Robert	Drumheller	59	20-7-25
Touhey, James B.	Dinant	19	27-7-38
Whiteside, E. S.	Vancouver, B.C.	6	15-12-98
White, E. Proctor	Virginia, U.S.A.	8	17-6-01
*Wyllie, John B.	Frank	13	25-11-02
Waite, Archibald	Taber	15	9-4-03
*Wilson, David G.	Fernie, B.C.	22	31-10-03
Wilson, Arthur R.	Nanaimo, B.C.	28	12-1-04
*Wall, Wm. H.	Nanaimo, B.C.	32	10-2-04
*Williams, W. P.	Blairmore	36	2-5-04
*Wright, H. B.	Fernie, B.C.	40	25-5-04
*Wilkinson, Geo.	Nanaimo, B.C.	54	27-3-05
*Weatherby, C.	Coleman	2	31-5-06
Williams, T. H.	Taber	10	18-1-08
Watters, John	Bankhead	30	30-11-09
*Wark, S. D.	Passburg	37	15-12-09
*Willey, Edward	Fernie, B.C.	71	1-11-12
Watson, William	Drumheller	73	7-11-12
*Welch, James D.	Nordegg	1	18-9-14
Williams, Thomas B.	Calgary	2	18-9-14
Watters, Alexander G.	Bankhead	32	5-7-18
Watson, Ronald H.	Edmonton	37	3-7-19
*Wilkinson, George	Victoria, B.C. (Duplicate)	45	21-11-19
Williams, Arthur E.	Saunders	59	1-8-27
Wilson, Andrew	Edmonton	70	1-8-27

THE MINES BRANCH

List of Names of Holders of First Class Certificates—Continued·

Name	Address	Cert. No.	Date of Issue
Clark, Wilton H. W.	Coleman	66	26- 7-27
Wilson, William	Drumheller	72	1- 8-27
Whittaker, W. C.	Coal Valley	74	29- 7-28
Worthington, Willard T.	Edmonton	16	26- 8-37
Young, D. B.	Bellevue	64	26- 7-26
Yates, Frank	Michel, B.C.	73	29- 7-28

*Deceased.

Certificates issued previous to September 1, 1905, were issued under the provisions of The Coal-mines Regulation Ordinance of the North-West Territories.

INTERCHANGE FIRST CLASS

Cumberford, James	Drumheller	80	19- 1-31
*Jones, Griffith	Drumheller	63	21-10-25
Morrison, Edward	Fernie, B.C.	62	28- 9-25
McLean, Michael D.	Michel, B.C.	68	30- 8-26
Scott, Thomas W.	Cadomin	67	17- 8-26

List of Names of Holders of Second Class Certificates issued by the Government of the Province of Alberta to December 31, 1939:

*Anderson, J.	Bellevue	2	30- 5-06
Aspinall, Frances	Vancouver, B.C.	27	27- 5-08
Allen, Peter	Wayne	72	20-12-11
Allen, William C.	Wayne	22	7- 9-15
Atherton, Edward	Sheerness	49	17- 7-17
Ashurst, William	Coleman	51	17- 7-17
Ashman, Alfred W.	East Coulee	88	3- 7-19
Adlam, William	Hillcrest	107	15- 7-19
Armstrong, John	Nordegg	110	16- 7-19
Adams, Thomas H.	Beverly	127	26- 7-20
*Anderson, Peter B.	Mountain Park	139	26- 7-20
Alexander, William	Bellevue	68	30- 7-38
*Bastian, J.	Taber	21	7- 5-04
Bastian, T. W.	Clover Bar	27	8- 4-05
Bowie, J.	Leduc	4	3- 1-07
Bamling, J.	Diamond City	44	2-12-09
Brockhouse, I. B.	Milk River	74	20-12-11
Bridge, Edward	Cumberland, B.C.	99	5-11-12
Brown, Alan J.	Coleman	105	7-11-12
Barclay, Andrew	Frank	111	18-11-12
Brown, William	Commerce	126	31- 7-13
Blake, Henry	Blairmore	128	31- 7-13
Brisco, Daniel	Luscar	19	21- 8-15
Bilson, George H.	Rhodesia	2	27- 8-14
*Brownrigg, John H.	Bankhead	21	30- 8-15
Berford, Edward	Commerce	27	12- 8-16
Barclay, William	Drumheller	54	10- 8-17
Bovio, M.	Bellevue	61	5- 7-18
Blair, John	Picture Butte	72	11- 7-18
Brearley, Garnett	Coalhurst	78	23- 7-18
Brown, J. F.	Edmonton	84	28- 6-19
Ball, Benjamin	Michel, B.C.	101	8- 7-19
Badham, Thomas	Coleman	104	15- 7-19
Bainbridge, James	Nanaimo, B.C.	112	5- 8-19
Brooks, Burton T.	Drumheller	129	26- 7-20
Brady, John	Luscar	141	26- 7-20
Brown, Thomas	Edmonton	55	17-11-17
Briggs, William A.	Carbon	154	10-10-21
Bradley, Thomas	Bellevue	166	17- 8-23
Baybutt, Thomas	Hillcrest	168	17- 8-23
Blas, Emile	Wayne	169	17- 8-23
Boucher, Charles T.	Ardley	175	16- 7-24
Barrowman, Alexander	Nordegg	182	14-11-24
Bainbridge, George E.	Coalhurst	183	12-12-24
Birse, Alexander	Edmonton	185	20- 7-25
Brown, Richard G.	Cadomin	192	30- 7-26
Burton, William H.	Edmonton	194	6- 8-26
Burton, John T.	Drumheller	212	23- 7-29
Barrie, John	Rosedale	8	26- 7-31
Boughton, C. A.	Robb	10	25- 7-32
Burton, James	Drumheller	13	25- 7-32
Burrell, Archibald K.	Mountain Park	37	26- 7-34
Brown, John D. B.		55	4-11-36

List of Names of Holders of Second Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Chestnut, C.	Vancouver, B.C.	30	18- 4-05
*Corkill, T.	Michel, B.C.	13	
*Crowder, James	Blairmore	10	26-12-07
Clay, E.	Oxville	28	7- 1-09
Clyne, James	Edmonton	53	22- 4-10
Clemenson, John	Scotland	58	17-12-10
Cooke, Joseph	Burnils	66	20- 2-11
Crowder, Harry	East Coulee	69	18-12-11
Coupland, George	Bellevue	77	21-12-11
Cranston, Michael	Drumheller	119	29- 7-13
Crawford, Alexander	Edmonton	125	31- 7-13
Campbell, K. S.	Beverly	132	31- 7-13
Coupland, Edward	Cadomin	8	18- 9-14
Coutes, George	Lethbridge	20	26- 8-15
Conlin, John	Drumheller	33	22- 8-16
Cox, John C.	Toronto	42	7- 7-17
Clark, Robert	Harderville	43	7- 7-17
Crabb, Samuel A. B.	Lethbridge	52	17- 7-17
Crawford, John	Edmonton	64	6- 7-18
Crawford, William S.	Lethbridge	66	9- 7-18
Carson, James	Spring Point	82	17-10-18
Cartwright, Charles E.	Blairmore	85	2- 7-19
Clarkstone, W. W.	Fernie, B.C.	93	3- 7-19
Caufield, J.	Coal Creek, B.C.	105	15- 7-19
Carr, Thomas	Cadomin	117	1-10-19
Cole, J. J.	Canmore	126	26- 7-20
Congdon, Milton H.	Blairmore	158	1- 8-22
Campbell, Thomas	Drumheller	174	16- 7-24
Chavignaud, Louis G.	Hinton	195	17- 8-26
Castella, Jens	Standard	35	23- 7-24
Clyne, James M.	Edmonton	42	18- 7-35
Carmichael, Malcolm	Canmore	65	21- 7-38
Crawford, Hugh	Lethbridge	85	12- 8-39
Curry, John	Hillcrest	86	12- 8-39
Davies, D.	Edmonton	31	18- 4-05
Duggan, R. G.	Nanaimo, B.C.	19	26- 4-04
Davis, A.	Lethbridge	4	19-11-98
Dixon, S.	Commerce	24	8- 2-08
Davies, S.	Alexo	18	10- 1-08
Davies, John	Coleman	11	26-12-07
Dunn, J. P.	Edmonton	9	26-12-07
Davis, John	Lethbridge	31	11- 1-09
*Davies, T.	Frank	54	22- 4-10
Davidson, David	Alexo	94	1-11-12
Davies, Thomas O.	Calgary	104	7-11-12
Dalziel, Robert	Clover Bar	122	31- 7-13
*Digman, John H.	Coalhurst	134	31- 7-13
Dennis, F. W.	England	3	27- 8-14
Dewar, Alexander	Coleman	16	16- 8-15
Donaldson, C. S.	Lethbridge	35	26- 8-16
Duncan, N. S.	Dodds	100	8- 7-19
D'Altroy, A. C.	British Columbia	145	1- 8-21
Dieter, W. J.	Sheerness	167	17- 8-23
Davidson, John M.	Clover Bar	187	1- 8-25
Dutton, Joseph A.	Mountain Park	198	1- 8-27
Davidson, Albert M.	Dodds	202	20-12-27
Davey, George	Rosedale	209	29- 7-28
Deere, G. E.	Foothills	214	23- 7-29
Davies, J. C. H.	Blakeburn, B.C.	219	10- 9-30
Dixon, John O.	High River	220	10- 9-30
Donaldson, Adam	Lethbridge	40	13- 8-34
Emmerson, C.	Bellevue	3	15-11-98
*Eccleston, W.	Michel, B.C.	16	10- 1-08
Evans, Thos. R.	Coleman	137	31- 7-13
Embree, Merton B.	Evansburg	98	3- 7-19
Edwards, John	Cadomin	7	26- 7-31
Evans, Howell	Mountain Park	24	29- 7-33
Elkes, Frederick W.	Drumheller	33	23- 7-34
Edwards, Mark	Edmonton	50	7- 8-36
Edwards, Oliver E.	Cadomin	53	12- 8-36
Esteban, Melchor	Calgary	59	23- 8-37
Evans, Howell	Luscar (Duplicate)	77	23- 3-39
Erikson, Gustaf W.	Blairmore	81	25- 7-39
*Fraser, G. L.	Coleman	25	23-12-04
Flint, W. G.	Edmonton	16	
Francis, J.	Taber	29	8- 1-09
Fox, A.	Nevis	42	29-11-09
Foster, W. R.	Taber	51	24- 1-10
Fulton, James K.	Coleman	133	31- 7-13
Foster, William	Robb	14	16- 8-15
Finlay, Samuel	Clover Bar	25	12- 8-16
*Ferguson, C. J.	Edmonton	38	30- 8-16

List of Names of Holders of Second Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Fortner, Edward	Tennessee, U.S.A.	57	3- 7-18
France, Thomas	Priddis	67	9- 7-18
Fylie, J.	Drumheller	109	16- 7-19
Fraser, James	Carbon	133	26- 7-20
Fyfe, Walter H.	Nelson, B.C.	142	26- 7-20
Ford, Allen	Michel, B.C.	146	1- 8-21
Fraser, Alex.	Carmangay	221	10- 9-30
Fawcett, Elmer S.	Cardiff	51	7- 8-36
Fox, Alfred A.	Canmore	63	13-11-37
Fridel, Stephen	Edmonton	59	30- 7-38
Green, R.	Calgary	17	26- 4-04
Giffen, H. R.	Carbon	14	1905
Gilliland, William	Cardiff	61	17-12-10
Garbett, Richard	Corbin, B.C.	100	5-11-12
Garrett, John	Blairmore	123	31- 7-13
Givens, John	Wayne	99	8- 7-19
*Gate, Harry	Coleman	124	26- 7-20
Graham, John	Coaldale	157	1- 8-22
Gidman, Joseph H.	Taber	165	29-12-22
Gordon, Thomas	Drumheller	184	27- 5-25
Gilmour, John	Drumheller	222	9- 2-31
Goodwin, Geo. W.	Bellevue	2	26- 7-31
Goodwin, Wm.	Bellevue	9	26- 7-31
Greenhalgh, R. M.	Coleman	11	25- 7-32
Gotheridge, W. V.	Round Hill	43	24- 7-35
Goodwin, Albert E.	Bellevue	72	26- 8-38
Hall, Oliver	Bellevue	26	23-12-04
Harvie, Robert	Lethbridge	1	30- 5-06
Hutchinson, A. M.	Coleman	6	3- 1-07
Horne, Robert	Blairmore	12	26-12-07
Horswell, John	Edmonton	34	1- 2-09
Howells, Nathaniel	Wayne	55	25- 5-10
Hallworth, Albert	Bellevue	65	30- 1-11
Hamilton, Allan	Drumheller	78	21-12-11
Heeley, William G.	Calgary	80	22-12-11
Hill, James	Canmore	84	13- 1-12
Hutton, John	Edmonton	93	1-11-12
Hunter, Henry	Diamond City	102	7-11-12
Hughes, Daniel J.	Bankhead	110	13-11-12
Hartley, William	Drumheller (Duplicate)	114	25-11-12
Hamilton, Allan	Beverly	1	1- 4-14
Hunter, Charles	Drumheller	4	18- 9-14
Hunter, Alexander B.	Coleman	7	18- 9-14
Harries, Henry C.	England	9	18- 9-14
Heathcote, Joseph	Barnwell	10	18- 9-14
Hughes, William R.	Nanaimo, B.C.	13	6- 8-15
Halliday, George W.	Bellevue	31	22- 8-16
Hutton, David T.	Champion	44	10- 7-17
Hastings, Andrew P.	Rocky Mountain House	62	5- 7-18
*Hulme, Charles	Lethbridge	63	6- 7-18
Hargreaves, G.	Ardley	70	9- 7-18
Hutchison, P.	Beverly	102	10- 7-19
Hedges, Richard	Coalhurst	111	18- 7-19
Higney, John	Coalhurst	130	26- 7-20
Heap, Robert	Coleman	137	26- 7-20
Holmes, Robert	Madrid	144	6- 1-21
Hughes, John C.	Lethbridge	156	15-12-21
Hamilton, Joseph J.	Coal Creek, B.C.	164	9- 9-22
Hall, James	Coal Creek, B.C.	190	26- 7-27
Hibbert, William J.	Dinant	191	26- 7-27
Harries, John	Wayne	213	23- 7-29
Hamilton, John	Delia	18	10- 8-32
Hulbert Havelock A.	Coleman	31	23- 7-34
Hamilton, Thomas M.	Blairmore	34	23- 7-34
Hooks, Albert	Drumheller	38	26- 7-34
Heyworth, Ernest S.	Edmonton	45	2- 6-36
Hillary, Joseph	Bellevue	49	7- 8-36
Hill, Ernest	Coleman	57	23- 8-37
Holliday, Thos.	Drumheller	71	17- 8-38
Henry, Wm. B.	Newcastle	76	9-11-38
Ironmonger, John	Hillcrest	60	5- 7-18
Jones, Samuel A.	Nanaimo, B.C.	18	26- 4-04
*Johnson, Moses	Blairmore	46	3-12-09
Jones, David	Edmonton	48	15-12-09
Jones, Peter	Drumheller	92	1-11-12
Jordan, William	East Coulee	112	20-11-12
*James, William	Pocahontas	5	18- 9-14
Jackson, James	Bellevue	56	3- 7-18
Joberg, A. F.	Delia	68	9- 7-18
*Jones, C. E. R.	Cardiff	83	12-11-18
Jones, D.	Coalhurst	116	5- 9-19
Jones, Daniel	Edmonton	178	24- 7-24

List of Names of Holders of Second Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
*Jones, Iltyd	Edmonton	197	1- 8-27
Jones, Elias	Coleman	16	25- 7-12
Kerr, John	Lethbridge	33	6- 7-05
Kellock, George	Coleman	39	27-11-09
Kellock, James	Coleman	82	30-12-11
Keith, John D.	Coalhurst	107	11-11-12
Kaye, Hershel	Pecahontas	129	31- 7-13
Kerr, W. R.	Carbon	115	2- 9-19
Kennedy, Joseph	Willow Creek	47	31- 7-36
Lowrie, Ralph	Stettler	34	6- 7-05
Livingstone, Robert	Lethbridge	6	5- 6-99
Livingstone, John C.	Lethbridge	5	19-11-98
Lee, Robert J.	Estevan, Sask.	56	17-12-10
Luck, George	Drumheller	70	19-12-11
Letcher, William M.	Bankhead	96	1-11-12
Leblanc, Emile	Wayne	127	31- 7-13
Little, Robert	Michel, B.C.	6	18- 9-14
Lundy, James	Carbon	53	17- 7-17
Larair, Charles F.	Coleman	170	1- 9-23
Lindoe, Luke	Hanna	74	12- 7-18
Little, James	Michel, B.C.	200	12- 8-27
Lavis, George	East Coulee	218	10- 9-30
*Musgrave, John	Cannmore	2	15-11-98
*Morris, John	Lundbreck	8	3- 1-07
*Morgan, Daniel	Edmonton	17	10- 1-08
Musgrave, William	Cannmore	32	6- 7-05
Miller, John K.	Drumheller	29	8- 4-05
Moore, Thomas E.	Drumheller	47	11-12-09
Miard, Harry K.	Coal Creek, B.C.	64	16- 1-11
Munro, William K.	Blairmore	76	21-12-11
Murphy, Peter J.	Drumheller	91	24- 8-12
Mather, Thomas	Luscar	106	11-11-12
Muir, David	Edmonton	108	11-11-12
Massey, Harry	Corbin, B.C.	116	25-11-12
Morgan, Owen	Saunders	121	29- 7-13
Mason, Samuel	Blairmore	130	31- 7-13
Mather, John	Edmonton	23	13- 9-15
Miller, Walter	Beverly	26	12- 8-16
Melling, Peter	Coalhurst	28	12- 8-16
Murray, J.	Coalhurst	90	3- 7-19
Mossey, Thomas	Lethbridge	95	3- 7-19
Makin, J. W.	Hillcrest	103	15- 7-19
Marsh, E.	Wayne	113	25- 8-19
*Martin, R.	Taber	114	25- 8-19
Miller, John H.	Midlandvale	131	26- 7-20
Mackie, John	Bankhead	136	26- 7-20
Marsh, John H.	Midlandvale	153	1- 8-21
Meyers, August	Drumheller	172	18-12-23
Mossey, Robert	Frank	173	16- 7-24
*Martin, Henry Sr.	Saunders West	203	29- 2-28
Miller, David	Mercoal	204	19- 7-28
Miller, John K.	Drumheller (Duplicate)	210	24-11-28
Morgan, Evan H.	Edmonton	215	23- 7-29
Marsh, Walter	Delburne	20	21- 9-32
Maievchi, John (May)	Edmonton	26	29- 7-33
Morgan, Thos. E.	Hillcrest	27	22- 8-33
Moran, James	Edmonton	46	28- 7-36
Mayoh, Daniel	East Coulee	48	7- 8-36
Musgrave, Harry B.	Canmore	60	23- 8-37
Muir, Alexander	Alexo	67	27- 8-38
Milling, Joseph	Burmis	75	13-10-38
Mills, Basil	Lethbridge	82	25- 7-39
*McVicar, Samuel	Shaughnessy	84	12- 8-39
McKean, John W.	Frank	23	23-12-04
McGregor, Alex.	Lethbridge	24	23-12-04
*McKay, Donald	Cardiff	1	20-12-05
McLenhan, John A.	Bankhead	3	30- 5-06
*McKeltie, Jas.	Edmonton	33	1- 2-09
McDonald, Duncan	Hosmer, B.C.	43	29-11-09
McMillan, Donald	Drumheller	60	17-12-10
MacDonald, James A.	Pincher Creek	71	20-12-11
MacKay, Angus	Bellevue	79	21-12-11
McIntyre, John J.	Nova Scotia	81	26-12-11
McDonald, J. O. C.	Coleman	88	2- 3-12
McDonald, Hector S.	Coleman	15	16- 8-15
McDonald, Noble M.	Coleman	17	16- 8-15
McLellan, John A.	Bellevue	18	16- 8-15
McFegan, William	Mercoal	24	2-11-15
McIntyre, John J.	South Wellington, B.C.	34	22- 8-16
MacDonald, J. H.	Bellevue (Duplicate)	41	9-12-16
McQueen, Andrew	Nanaimo, B.C.	48	10- 7-17
	Edmonton	71	9- 7-18

THE MINES BRANCH

List of Names of Holders of Second Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
McKinnon, H. G.	Canmore	76	13- 7-18
MacAskill, Donald	Drumheller	77	16- 7-18
McKinnon, John L.	Coleman	80	26- 7-18
McLean, Michael D.	Michel, B.C.	122	26- 7-20
McCullough, Alex.	Coleman	143	10- 8-20
McLeod, Alexander	Drumheller	149	1- 8-21
MacDonald, William	Drumheller	155	10-10-21
McKenna, Peter	Cadomin	161	1- 8-22
McGaw, Albert M. S.	Carmangay	171	15- 9-23
MacDonald, L. M.	Bellevue	217	10- 9-30
McDonald, Clyde P.	Bellevue	1	26- 7-31
McGregor, Thos. B.	Lethbridge	19	10- 8-32
McCowan, John M.	Newcastle	36	26- 7-34
McCUTCHEON, J. A.	Midlandvale	58	19- 8-37
McAndrew, J. M.	Calgary	64	19- 7-38
McMullen, Arthur	Nordegg	66	21- 7-38
*Nicol, James	Frank	36	10- 2-09
Nanson, Thomas H.	Bellevue	40	25- 9-16
Nicol, George	Drumheller	46	10- 7-17
Nugent, Bernard	Camrose	73	11- 7-18
Novak, Mike	Milk River	32	23- 7-34
Ostheide, Gus	Cardiff	1	14-11-98
Oliphant, Joseph H.	Carbon	59	17-12-10
Oliphant, John T.	Medicine Hat	153	1- 8-21
Ostler, James	Taber	160	1- 8-22
Ottewell, William J.	Clover Bar	176	16- 7-24
Ottewell, Cedric P.	Clover Bar	193	6- 8-26
Oakes, Robert	Blairmore	17	25- 7-32
*Phillips, Chas.	Frank	20	26- 4-04
Pearson, W. G.	Frank	15	26- 4-04
Parsons, T. Lloyd	Edmonton	26	21- 3-08
Pickles, William	Edmonton	35	1- 2-09
Prentice, John	Virginia, U.S.A.	45	2-12-09
Park, Stewart G.	Lethbridge	57	17-12-10
Parker, Levi	Cardiff	68	28- 4-11
Powell, Albert E.	Lundbreck	85	16- 1-12
Parry, Thomas	Coleman	109	12-11-12
Picton, Daniel	Aerial	118	10- 2-13
Penman, John S.	Rosenroll	120	29- 7-13
*Pavier, Evan L.	Edmonton	37	30- 8-16
Puckett, Owen L.	Robb	50	17- 7-17
Park, William	Bellevue	65	6- 7-18
Pemberton, Geo. W.	Edmonton	97	3- 7-19
Peacock, Charles	Coalhurst	138	26- 7-20
Prendergast, Denis	Nova Scotia	188	26- 7-26
Pettigrew, Robert	Corbin, B.C.	30	27- 4-34
Potter, I. N.	Nacmine	44	15- 8-35
Parker, Jack	Cardiff	52	6- 8-36
Price, Stanley R.	Blairmore	79	25- 7-39
Peta, Julius	Harderville	90	23-10-39
Quigley, Daniel H.	Drumheller	73	20-12-11
Queen, Andrew M.	Lethbridge	124	31- 7-13
Quin, James	East Coulee	23	29- 7-33
Rice, Awrey	Edmonton	2	20-12-05
Roberts, D. E.	Coleman	14	10- 1-08
Rankin, George	Michel, B.C.	41	29-11-09
*Roberts, E. I.	Edmonton	52	12- 3-10
Ramsey, Peter M.	East Coulee	86	24- 2-12
Roberts, E.	Rosedale	87	2- 3-12
Richards, Samuel	Bellevue	98	5-11-12
Roberts, John	Cadomin	12	26-10-14
Russell, John	Alix	29	12- 8-16
Robinson, William	British Columbia	30	22- 8-16
Rawlinson, R.	Cadomin	32	22- 8-16
Richards, Evan	Edmonton	59	3- 7-18
Roberts, G.	Lethbridge	79	23- 7-18
Roberts, D. O.	Cardiff	86	2- 7-19
Reed, Edward	Drumheller	135	26- 7-20
Radford, James	Bellevue	140	26- 7-20
Redpath, James	Wayne	147	1- 8-21
Ruffell, Alfred	Lethbridge	180	11- 8-24
Rees, Daniel	Blairmore	189	26- 7-26
Rappel, Thomas	Canmore	206	19- 7-28
Rolfe, E.	British Columbia	211	4- 2-29
Robertson, Duncan	Drumheller	29	10- 3-34
Rear, Albert E.	Coleman	56	15-12-36
Rochester, Jasper J.	Hinton	78	20- 7-39
*Scott, Hugh	Lethbridge	7	9- 3-00
Steele, Thomas	Coleman	12	26- 4-04
Sequin, Joseph A.	Estevan, Sask.	22	16- 4-04
Sparrow, Edwin	Tawatinaw	7	3- 1-07
*Shone, Samuel	Coleman	23	23- 1-08

List of Names of Holders of Second Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
*Shaw, William	Edmonton	21	18- 1-08
Scott, Andrew N.	Luscar	19	10- 1-08
Stewart, J. M.	Nordegg	50	24-12-09
Silvion, William	East Coulee	40	29-11-09
Sloan, Thomas W.	Burnis	67	2- 3-11
Shaw, Thomas J.	Hinton	75	21-12-11
Strickland, Thomas	Three Hills	101	5-11-12
Scott, Alexander	Pocahontas	103	7-11-12
Schmidt, Otto P.	Camrose	115	25-11-12
Shanks, David	Nordegg	117	7-12-12
Stephenson, Joseph	Bellevue	135	31- 7-13
Stephenson, Thomas	Bellevue	136	31- 7-13
Smith, Thomas E.	Montana, U.S.A.	39	14- 9-16
Simpson, William G.	British Columbia	45	10- 7-17
Stevenson, John	Glasgow, Scotland	47	10- 7-17
Sinclair, James	Drumheller	81	7- 8-18
Sandino, J. A.	Drumheller	91	3- 7-19
Stratton, J. M.	Redcliff	94	3- 7-19
Saunt, James	Drumheller	123	26- 7-20
Steele, Francis M.	Pincher Creek	125	26- 7-20
*Scott, Frederick G.	Brule	128	26- 7-20
Scarpino, F.	Wayne	121	26- 7-20
Shaw, William G.	Kimberley	177	24- 7-24
Shaw, Joseph H.	Kimberley	196	22- 9-26
Smith, Terrence	Beverly	205	19- 7-28
Swan, John	Edmonton	12	25- 7-32
Strang, David	Mountain Park	15	25- 7-32
Sutherland, S. R.	Bellevue	28	22- 8-33
Smith, Peter	Coleman	39	13- 8-34
Strickland, Thos.	Three Hills (Duplicate)	54	16-10-36
Samis, Earl L.	Namao	62	30- 9-37
Shaw, Robert	Coleman	70	2- 8-38
Sinoski, Steve	Edmonton South	80	25- 7-39
Sarsfield, Wm.	East Coulee	83	28- 7-39
Simmons, Harry	Mountain Park	89	14- 9-39
*Thomas, David	Bankhead	28	8- 4-05
*Teppo, Herman	Bellevue	15	10- 1-08
Thomas, John	Diamond City	30	8- 1-09
Thain, Harry S.	Lethbridge	32	12- 1-09
*Thomas, Jos. D.	Drumheller	37	25-11-09
*Taylor, Thomas	Hillcrest	62	22-12-10
Taylor, Geo. Warren	Lethbridge	83	30-12-11
Thomas, John	Frank	89	25- 3-12
Tonge, Thomas	Lundbreck	90	1- 6-12
Thompson, Joseph	Coleman	97	1-11-12
Thomas, Isaac	Coleman	131	31- 7-13
Tennant, Robert	East Coulee	38	3- 7-18
Tully, Thomas	Fernie, B.C.	75	12- 7-18
Thompson, T.	Coleman	87	2- 7-19
Thomason, C.	Blairmore	119	12-11-19
Taylor, C. M.	Edmonton	118	1-10-19
Thomas, Isaac	Coleman (Duplicate)	120	2- 1-20
Turner, Leonard	Nordegg	179	11- 8-24
Thomson, Andrew R.	East Coulee	159	1- 8-22
Thomson, George G.	Lethbridge	163	9- 9-22
Turner, Leonard	Nordegg	179	11- 8-24
Talbot, W. J.	Edmonton	207	29- 7-28
Thackray, Fred	Lethbridge	208	29- 7-28
Thomson, John	Edmonton	4	26- 7-31
Thomson, James	Namao	6	27- 7-31
Touhey, J. B.	Drumheller	22	6- 5-33
Tyler, Edward	Shaughnessy	61	27- 8-37
Thomas, David R.	Edmonton	73	3- 9-38
Tyler, Harold	Lethbridge	87	12- 8-39
*Unsworth, Robert	Hanna	36	30- 8-16
Utley, F. W.	Bellevue	108	16- 7-19
Villard, Henry	Wabamun	181	11- 8-24
Vivyrka, John	Mercal	21	28- 9-32
Williams, Thomas H.	Vancouver, B.C.	8	20- 7-00
Waite, Archibald	Taber	10	26- 4-04
*Weatherby, Cory	Hillcrest	11	6-11-02
Wilson, William G.	Tacoma, Wash.	3	20-12-05
Whitelaw, Thomas	Lethbridge	25	24- 2-08
Watters, John	Banff	22	18- 1-08
Watkins, W. E.	Champion	20	18- 1-08
Watson, William	Big Valley	13	26-12-07
*Wright, J. S.	Canmore	38	27-11-09
Winter, Archibald	Edmonton	63	16- 1-11
Watters, A. G.	Pocahontas	95	1-11-12
*Welch, James D.	Taber	113	20-11-12
Williams, John J.	Edmonton	11	18- 9-14

THE MINES BRANCH

List of Names of Holders of Second Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Worthington, Thomas	Lethbridge	69	9- 7-18
Worthington, W. T.	Edmonton	92	3- 7-19
Williams, W. E.	Edmonton	96	3- 7-19
Watkins, J. M.	Taber	106	15- 7-19
Williams, Albert	Edmonton	134	26- 7-20
Willets, Frederick	Hillcrest	148	1- 8-21
Wilson, Robinson	Drumheller	151	1- 8-21
Williams, Arthur E.	Saunders	162	1- 8-22
Williamson, David S.	Canrose	199	5- 8-27
Westcott, Henry M.	Wayne	201	10- 9-27
Whitehead, J. W.	Blairmore	216	5- 9-29
Wheatley, F. M.	Banff	3	26- 7-31
Wiltse, Donald H.	Edmonton	5	26- 7-31
Womersley, Alfred	Blairmore	25	29- 7-33
Webster, James S.	Shaughnessy	88	17- 8-39
Yard, George C.	Nordegg	150	1- 8-21
Young, D. B.	Bellevue	186	24- 7-25

*Deceased.

List of Names of Holders of Third Class Certificates Issued by the Government of the Province of Alberta to December 31, 1939:

*Anderson, J.	Frank	13	
*Alderson, R. D.	Coleman	17	3- 1-07
Aspinall, Francis	Drumheller	32	30- 5-07
Ashurst, W.	Coleman	82	26- 8-09
Adlam, William	Hillcrest	108	2- 6-10
Archer, Roland	Hillcrest	132	22-12-10
Allen, William C.	Wayne	205	10- 8-12
Archibald, David	Bickerdike	222	25-11-12
Allan, Alexander M.	Hosmer, B.C.	247	31- 7-13
Adams, Thomas H.	Beverly	16	10- 3-14
Anderson, Andrew	Bellevue	39	17- 6-14
Atherton, Edward	Sheerness	40	14- 7-14
Appleton, John T.	Mountain Park	76	19- 4-15
Ashton, William	Hinton	90	27- 8-15
Anderson, Hugh W.	Edmonton	150	7- 7-17
Ashman, Alfred	East Coulee	151	7- 7-17
Armstrong, John	Castor	171	17- 7-17
Armstrong, Peter M.	Nordegg	224	8- 6-18
Arbuckle, John	Mountain Park	263	26- 6-19
Allen, Edgar	Wayne	436	29- 8-21
Antrobus, Fred	Coleman	461	31- 7-22
Ambrossi, Antonio	British Columbia	478	1- 8-22
Astley, David	Luscar	483	1- 8-22
Anderson, Robert	Drumheller	638	17- 8-26
Anderson, Gunner W.	Evansburg	650	1- 8-27
Aitken, William	Mountain Park	668	24- 3-28
Allanby, Charles H.	Foothills	679	19- 7-28
Armstrong, Alex.	Drumheller	697	16- 8-28
Armstrong, John	Castor	719	7- 6-29
Allen, Thos. G.	Blairmore	765	4- 6-30
Alexander, Wm.	Bellevue	8	26- 7-31
Annon, Joseph L.	Winnifred	65	25- 6-32
Ashmore, Jas. Jr.	Champion	108	15- 6-33
Appleby, Wm. S.	Canmore	117	6- 7-23
Adamson, Robert	Huxley	157	12- 6-34
Augustin, Ernest C.	Grande Prairie	164	19- 6-34
Aitchison, Peter	Lethbridge	230	22- 6-36
Adamson, Alexander	Perbeck	231	22- 6-36
Atkinson, Chas. W.	Drumheller	249	3- 6-37
Anderson, Robert	Drumheller	258	23- 6-37
Anderson, Arne	Elnora	313	4- 7-38
Allen, Walter F.	Wayne	315	4- 7-38
Allan, William H.	Drumheller	347	8- 6-39
Andrew, Alfred	Edmonton	355	8- 6-39
Bastian, T. W.	Clover Bar	30	5-12-04
Barber, J.	Bankhead	7	3- 1-07
Bansemter, R.	Bankhead	14	3- 1-07
Blake, P.	Lundbreck	23	14- 5-07
Brown, T.	Edmonton	24	14- 5-07
*Brownrigg, John H.	Frank	35	26-12-07
Burrows, C.	Frank	40	18- 1-08
Boulton, W. E.	Drumheller	48	29- 5-08
*Brovey, A. C.	Edmonton	64	1- 2-09
Besso, A.	Canmore	80	26- 7-09
Barnes, B. J.	Coal Creek, B.C.	92	29-11-09
Brisco, Daniel	Luscar	117	9- 6-10

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Blake, Henry	Bellevue	133	30-12-10
Bradley, Thomas	Bellevue	138	16- 1-11
Barber, James S.	Hillcrest	144	3- 7-11
Bovio, Michael	Bellevue	146	3- 7-11
Brown, Alan J.	Coleman	163	17-11-11
Berford, Edward	Elcan	196	13- 7-12
Blakemore, Royden E.	Edmonton	227	16-12-12
Bainbridge, James	Nanaimo, B.C.	235	31- 7-13
Baird, John	Blairmore	243	31- 7-13
Beal, George F.	Bellevue	7	20-12-13
Bearley, Garnet	Turin	18	16- 3-14
Barclay, William	Drumheller	22	13- 3-14
Brown, John F.	Pocahontas	29	21 4- 14
Barclay, W. G.	Pocahontas	30	23- 4-14
Byers, John W.	Taber	48	25-11-14
Byron, John	Coalhurst	11	10- 3-14
Billington, Edward E.	England	73	25- 2-15
Booth, George	Beverly	85	18- 8-15
Boldon, James	Bellevue	86	19- 8-15
Bell, William	Coleman	95	12-10-15
Brown, Robert	Bellevue	112	10- 7-16
Bateman, Fred	Sheerness	123	14- 7-16
Barnes, Edward	Mountain Park	137	25- 9-16
Badham, Thomas	Drumheller	153	7- 7-17
Beveridge, Andrew	Lucky Strike	156	7- 7-17
Brown, David M.	Commerce	157	7- 7-17
Brooks, Burton T.	Drumheller	167	17- 7-17
Bartlett, Wallace	Elcan	173	17- 7-17
Bennett, Isaac	Armada	179	17- 7-17
Blair, John	Wayne	183	25- 7-17
Bobrovicki, Martin	Drumheller	217	5- 6-18
Baird, William	Drumheller	218	5- 6-18
Brooks, Claude E.	Drumheller	220	8- 6-18
*Blussion, Joseph T. C.	Champion	253	26- 6-19
Briggs, Alfred J.	Carbon	254	26- 6-19
Brennan, John	Long Coulec	261	26- 6-19
Brown, Frank	Coal Creek, B.C.	262	26- 6-19
Birse, Alexander	Coalhurst	268	26- 6-19
Bateman, James	Lethbridge	279	26- 6-19
Bealle, Fred A.	Brule	285	26- 6-19
Ball, Alfred	Natal, B.C.	292	20-11-19
Bland, H. A.	Taber	296	3- 2-20
Briggs, Charles	Canmore	302	26- 7-20
Babino, Arthur	Bankhead	312	26- 7-20
Barclay, R. W.	Drumheller	313	26- 7-20
Beveridge, Andrew	Coleman	314	26- 7-20
Bainbridge, G. E.	Nordegg	343	26- 7-20
Bambrough, George	Hillcrest	345	26- 7-20
Burcey, A.	Calgary	352	26- 7-20
Bird, Richard	Nordcgg	357	26- 7-20
Barringham, F. J.	Rosedale	362	26- 7-20
Baxter, Robert	Canmore	374	17- 6-21
Brown, Thomas W.	Edmonton	377	1- 8-21
Battee, Noyes S.	Drumheller	381	1- 8-21
Blas, Emile	Bellevue	382	1- 8-21
Blake, Sylvanus R.	Wayne	384	1- 8-21
Barnes, Thomas	Blairmore	387	1- 8-21
Boyd, John	Wayne	390	1- 8-21
Barrie, James	Commerce	401	1- 8-21
Briggs, William A.	Carbon	414	1- 8-21
Bedwell, Alfred E.	Lethbridge	415	1- 8-21
Brooks, John	Bellevue	428	1- 8-21
Brown, George A.	Michel, B.C.	432	29- 8-21
Burton, John T.	Edmonton	448	21- 7-22
Birt, William C.	Evansburg	452	31- 7-22
Barnes, Ernest	Coleman	453	31- 7-22
Baker, Robert W.	Coleman	456	31- 7-22
Bradley, Walter	Cardiff	490	1- 9-22
Brooks, George W.	Edmonton	499	1-11-22
Brown, Austin L.	Edmonton	510	30- 5-23
*Barnes, John W.	Coleman	512	30- 6-23
Boscariol, J.	Mountain Park	521	17- 8-23
Brewer, Thomas W.	Drumheller	529	17- 8-23
Bonner, Fred	Evansburg	542	1- 9-23
Barrowman, Alexander	Nordegg	548	15- 9-23
Burton, William H.	Entwistle	553	1-11-23
Brown, Clarence H.	Drumheller	554	15-11-23
Boutry, A.	Bellevue	557	4-12-23
Burnham, George	Fallis	560	18-12-23
Brown, Richard G.	Cadomin	598	20- 7-25
Burrell, John	Coleman	607	25- 7-25

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Burrows, James G.	Bellevue	617	14-10-25
Balkwill, Frederick W.	Hillcrest	631	30- 7-26
Booth, Harry	Beverly	654	12- 8-27
Burton, James	Robb	670	19- 7-28
Brown, William	Canmore	676	19- 7-28
Bradshaw, James	Scapa	690	16- 8-28
Bailey, Leonard H.	Coalhurst	699	16- 8-28
Broderick, Frederick	Drumheller	702	24-10-28
Bevan, Walter	Canmore	721	7- 6-29
Boughton, C. A.	Rosedale	755	12-11-29
Boseley, Joseph H.	Bellevue	780	10- 6-30
Barber, William J.	Drumheller	781	10- 6-30
Blas, Victor	Blairmore	787	14- 6-30
Burrell, Archie K.	Drumheller	793	3- 7-30
Bell, William	Canmore	798	8- 8-30
Birrell, William	Robb	1	29- 1-31
Barrass, Thomas	Wayne	40	27- 7-31
Baker, R. D.	Luscar	41	27- 7-31
Barons, James	Drumheller	48	3- 8-31
Brown, Frederick	Edmonton	58	2- 6-32
Blades, James	Delburne	62	25- 6-32
Bonetti, D.	Champion	73	25- 6-32
Barclay, Daniel	Sundre	89	23- 9-32
Blas, Emil	Blairmore	91	22-10-32
Booth, Joseph	Drumheller	98	10- 6-33
Bradley, James	Foreman	103	10- 6-33
Bond, Bertram	Coleman	106	15- 6-33
Beveridge, John S.	Midlandvale	122	29- 7-33
Brown, J. D. B.	Mountain Park	129	26- 8-33
Blackett, W. N.	Drumheller	131	15-10-33
Budda, Joseph J.	Bellevue	145	5- 6-34
Bordula, Andrew J.	Hanna	160	16- 6-34
Baroni, Alfred	Edmonton	166	27- 6-34
Bignell, Emford L.	Gadsby	170	26- 7-34
Black, Andrew Jr.	Rosedale Station	184	17- 1-35
Brown, John	Canmore	185	20- 2-35
Bridarolli, G.	Magrath	203	8- 7-35
Bragdich, George	Thelma	207	24- 7-35
Bradshaw, Richard	East Coulee	209	26- 7-35
Broderick, Gideon	Canmore	221	10- 3-36
Budesheim, August E.	Dimsdale	238	20- 8-36
Batchelor, Frank	Lethbridge	275	10- 9-37
Barnes, George S.	Mountain Park	290	8- 6-38
Bulat, John	Edmonton	291	8- 6-38
Briers, Leonard	Red Deer	317	8- 7-38
Boychuk, Michael T.	Shaughnessy	324	12- 8-38
Barclay, Peter	Foothills	332	7- 9-38
Blum, Leo	Lymburn	336	19- 9-38
Bryant, E. A.	Wabamun	337	1-10-38
Briggs, Wm. A. Jr.	Drumheller	346	8- 6-39
Bachynski, John	Newcastle	348	8- 6-39
Blake, Robert	Bellevue	391	22- 8-39
Cowan, W.	Bankhead	4	15-11-98
Chestnut, C.	British Columbia	28	26- 4-04
Cawthorne, L.	Frank	46	18- 4-05
Churchill, J.	Frank	45	18- 4-05
Chestnut, C.	Blairmore (Duplicate)	28	6- 7-05
Cooke, J.	Bankhead	4	30- 5-06
Catchpole, C.	Three Hills	2	30- 5-06
*Clark, J. C.	Blairmore	33	17- 7-07
Clyne, James	Edmonton	65	1- 2-09
Coie, J. J.	Canmore	66	1- 2-09
Campbell, Kenneth S.	Edmonton	102	27- 1-10
Clemson, John	Bankhead	105	30- 5-10
Carson, James	Coalhurst	120	21- 6-10
Crockett, Levi A.	Hillcrest	131	22-12-10
Coupland, George	Bellevue	148	4- 7-11
Carson, George	Frank	154	8- 7-11
Crawford, George	Frank	160	17-11-11
Combs, Walter P.	Taber	164	17-11-11
Coupland, Edward	Cadomin	173	17-11-11
Cox, John	Toronto	193	13- 7-12
Crawford, John	Edmonton	197	13- 7-12
Coutts, George	Lethbridge	210	26-10-12
Clark, Robert	Lethbridge	212	31-10-12
Cranston, Michael	Drumheller	218	11-11-12
Crawford, William	Lethbridge	8	6- 3-14
Coutts, David	Hardieville	23	30- 3-14
Crabb, S. A. B.	Lethbridge	38	28- 5-14
Chaplow, Joseph	Lethbridge	49	25-11-14
Clarke, Robert G.	Drumheller	70	16- 2-15
Campbell, John H.	Canmore	71	16- 2-15

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Coxon, Thomas	Nacmine	89	27- 8-15
Convery, Dennis	Coleman	107	10- 7-16
Cooper, John A.	Lethbridge	166	10- 7-17
Coutts, Anthony B.	Hardieville	178	17- 7-17
Campbell, Henry	Bellevue	188	13- 8-17
Cartwright, Chas. E.	Blairmore	198	4- 4-18
Cousens, Gilbert W.	Bellevue	199	4- 4-18
Collins, Sidney G.	Edmonton	219	5- 6-18
Chapman, Christopher	Drumheller	232	12- 6-18
Campbell, George P.	Nordegg	229	8- 6-18
Chambers, Ralph H.	Lovett	246	25- 6-19
Campbell, Thomas	Alexo	247	25- 6-19
Conley, Leroy L.	Saunders	260	26- 6-19
Chalmers, James	Edmonton	278	26- 6-19
Carr, Thomas	Cadomin	283	26- 6-19
Clark, John	Bankhead	301	26- 7-20
*Congalton, Clem S.	Vancouver, B.C.	315	26- 7-20
Cameron, Donald	Coalspur	331	26- 7-20
Cotterill, John	Rosedale	346	26- 7-20
Crawford, George	Bellevue (Duplicate)	365	26- 7-20
Candlish, W. S.	Brule	366	26- 7-20
Causey, Thomas	Taber	403	1- 8-21
Craig, James M. S.	Nordegg	413	1- 8-21
Clelland, William	Lethbridge	421	1- 8-21
Curry, John	Passburg	439	3-11-21
Chalmers, Robert	Edmonton	454	31- 7-22
Cowan, James	High River	459	31- 7-22
Congdon, Milton H.	Blairmore	476	1- 8-22
China, John	Nordegg	480	1- 8-22
Cardle, James	Bellevue	481	1- 8-22
Clarke, Richard	Hillcrest	500	1-11-22
Clelland, Thomas	Edmonton	574	24- 7-24
Crichton, Robert	Hillcrest	516	17- 8-23
Carty, Patrick	Evansburg	595	20- 7-25
Canet, Camille A.	Blairmore	601	25- 7-25
Crawford, Robert	Lethbridge	619	21-10-25
Chavignaud, Louis G.	Hinton	626	26- 7-26
Crawford, Charles	Edmonton	647	1- 8-27
Conlin, Richard	Drumheller	656	14- 8-27
Crawford, James	Clover Bar	662	10- 9-27
Cumberford, James	Drumheller	672	19- 7-28
Cartledge, George F.	Aerial	673	19- 7-28
Carmichael, Malcolm	Canmore	684	1- 8-28
Colbourne, J. H.	Drumheller	710	1- 5-29
Currie, Robert	Canmore	715	7- 6-29
Christie, Joseph	Bellevue	731	17- 6-29
Clack, Robert W.	Drumheller	740	17- 6-29
Castella, Jens	Standard	743	5- 7-29
Clancy, James	Craigmyle	28	3- 8-31
Chisholm, John A.	Luscar	37	22- 8-31
Clyne, James M. Jr.	Edmonton	45	26- 8-31
Challenger, Edward J.	Magrath	86	24- 8-32
Cowan, Robert	Drumheller	92	22-10-32
Campbell, James	Cluny	107	15- 6-33
Crozier, John E.	Drumheller	128	26- 8-33
Comin, Silvio	Bellevue	148	5- 6-34
Calderbank, J. S.	Scapa	155	12- 6-34
Chamberlain, William H.	Mountain Park	245	31- 5-37
Craig, Andrew	Lethbridge	266	13- 7-37
Courtorelle, Alan F.	Bittern Lake	287	8- 6-38
Chiswick, James	Drumheller	289	8- 6-38
Clozza, Angelo	Forestburg	303	22- 6-38
Chemotti, Guiseppe	Edberg	318	14- 7-38
Chapman, John W.	Alix	333	7- 9-38
Crawford, Hugh	Hillcrest	368	22- 6-39
Camarta, John	Edmonton	371	22- 6-39
Cumberford, Granger	Lousana	384	20- 7-39
Campbell, Harry B.	Willow Creek	395	10- 9-39
Colonel, Daniel	Edmonton	16	25-11-03
Crawford, John S.	Canmore	24	25-11-03
Curry, John	Taber	27	26- 4-04
Cherrille, Orlando	Frank	49	18- 4-05
Campkin, Robert	Canmore (Duplicate)	6	6-10-06
Cooke, Chas. R.	Commerce	18	3- 1-07
*Davies, W. J.	Canmore	31	23- 5-07
*Downs, T.	Taber	41	18- 1-08
Duggan, R. G.			
Davies, T.			
Downs, T.			
Dickson, S.			
Devonshire, G.			
Duggan, E. J.			

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Davies, T. O.	Calgary	109	2- 6-10
Davidson, David	Coleman	170	17-11-11
Doodson, Robert	Coal Creek, B.C.	177	17-11-11
Duthie, Alexander F.	Pocahontas	184	28-11-11
*Digman, John H.	Royal View	198	13- 7-12
Duncan, Ninian S.	Dodds	211	31-10-12
Draper, Robert	Hillcrest	214	1-11-12
Dennis, Frederick W.	England	3	28-11-13
D'Altroy, Arthur C.	British Columbia	6	1-12-13
Devoy, William	Hardieville	9	6- 3-14
Dean, William	Bankhead	20	20- 3-14
Duggan, John	Wayne	97	12-10-15
Douglas, D. B.	Edmonton	129	26- 7-16
Davis, William	Mountain Park	192	7-11-17
Dunnigan, Edward	Evansburg	216	1- 6-18
Dawes, Edmund	Drumheller	222	8- 6-18
Davies, J.	Coleman	265	26- 6-19
Dupen, Thomas	Edmonton	275	26- 6-19
Dunlop, Hugh	Coleman	321	26- 7-20
Dunn, W. F.	Edmonton	347	26- 7-20
Dryburgh, W. W.	Nordegg	356	26- 7-20
Dieter, Walter J.	Sheerness	397	1- 8-21
Davey, George	Wayne	418	1- 8-21
Dunn, Samuel	Taber	441	15-12-21
Deere, Gladstone E.	Blackstone	449	21- 7-22
D'Amico, George	Nordegg	486	1- 8-22
Davies, John C. H.	Coalmont, B.C.	492	1- 9-22
Dudley, John T.	Hillcrest	493	1- 9-22
Davidson, Albert M.	Dodds	517	17- 8-23
Desson, Horace E.	Rosedale	526	17- 8-23
Driscoll, L.	Evansburg	560	24- 7-24
Dawson, Glen	Brule	573	24- 7-24
Dunbar, Edgar J.	Canmore	575	1- 8-24
Dunn, Charles F.	Drumheller	604	25- 7-25
Dupen, Albert E.	Lethbridge	616	14- 8-25
Davis, Fred M.	Jeffrey	619	28- 9-25
Dutton, Joseph A.	Mountain Park	623	26- 7-26
Donnachie, John	Brule	630	26- 7-26
Dixon, John O.	High River	698	16- 8-28
Davis, D. B.	Midlandvale	730	10- 6-29
Davies, James	East Coulee	784	10- 6-30
Dutka, Joseph	Canmore	794	3- 7-30
Dalziel, William	Clover Bar	14	26- 7-31
Davies, W. E.	Hillcrest	16	26- 7-31
Denholm, James	Mercoal	17	26- 7-31
Davidson, Robert M.	Coleman	33	26- 7-31
Davies, Richard	Luscar	42	26- 7-31
Dinsdale, Wm.	East Coulee	61	2- 6-32
Donaldson, Thomas	Shaughnessy	64	25- 6-32
Davies, E. M.	Wayne	95	25- 5-33
Davies, G. C.	Lundbreck	114	3- 7-33
Dutton, Alfred	Mountain Park	121	29- 7-33
Dixon, W. B.	High River	179	10- 9-34
Dropoff, Wm.	Midlandvale	208	26- 7-35
Douglas, Peter S. Jr.	Cadomin	233	22- 6-36
Dunbar, Robert	Hinton Trail	272	16- 8-37
Duquesne, George G.	Champion	306	22- 6-38
Dunn, Robert A.	Willow Creek	322	8- 8-38
Davies, Ernest	Big Prairie	326	26- 8-38
Dolanetz, Iggie	Three Hills	361	22- 6-39
*Eccleston, W.	Michel, B.C.	20	3- 1-07
Evans, H.	Taber	94	3- 1-07
Evans, D.	Frank	83	3- 9-09
Evans, Hugh	Lethbridge	156	12- 7-11
Embree, Merton B.	Evansburg	239	31- 7-13
Evans, Nathaniel	Passburg	54	27-11-14
Evans, Llewellyn	Coleman	152	7- 7-17
Excoffon, Eugene	Belleview	155	7- 7-17
*Eno, John W.	Drumheller	223	8- 6-18
Eccleston, Richard	Bellevue	243	26- 6-19
Evans, Thomas O.	R.R. 2, Millet	244	26- 6-19
Evans, Gwilym	Blairmore	308	26- 7-20
Evans, Charles	Hillcrest	327	26- 7-20
Eccleston, J. W.	Mountain Park	330	26- 7-20
Evans, William	Drumheller	360	26- 7-20
Evans, Thos. L.	Calgary	367	1-11-20
Evans, James D.	Drumheller	383	1- 8-21
Entwistle, Albert V.	Klipp	471	31- 7-22
Eccleston, Thomas	Mountain Park	475	31- 7-22
Eckert, William	Sedalia	539	17- 8-23
Elkes, F. W.	Newcastle	724	7- 6-29
Evans, H.	Mountain Park	750	5- 9-29

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Edwards, John	Cadomin	32	26- 7-31
Evans, David E.	Luscar	46	26- 7-31
Ewing, Fred	Donalda	97	10- 6-33
Edwards, O. E.	Cadomin	115	3- 7-33
Evans, I. L.	Blairmore	196	18- 6-35
Emblau, Archie A.	Mountain Park	268	13- 7-37
Elliott, James	Drumheller	277	26-10-37
Evans, Evan	Taber	362	22- 6-39
Fairhurst, H.	Lethbridge	39	23-12-04
Ferguson, C. J.	Edmonton	4	20-12-05
Fraser, J.	Coleman	8	3- 1-07
Fox, A.	Carbon	55	8- 1-09
Flowers, C. W.	Canmore	50	29- 5-08
Fiske, G. E.	Edmonton	88	27-11-09
Fisher, Samuel	Passburg	169	17-11-11
Ford, Allen	Burnis	183	28-11-11
Foster, William	Robb	31	28- 4-14
Ferguson, John	Commerce	34	23- 5-14
Fyfe, Walter H.	Nelson, B.C.	79	19- 8-15
Fishwick, Thomas	Stettler	98	12-10-15
Foster, James	Lethbridge	174	17- 7-17
Fisher, William J.	Bellevue	186	17- 7-17
Fisher, James	Bellevue	194	3- 4-18
Fisher, Ernest	Bellevue	256	26- 6-19
Fraser, Alec	Carmangay	274	26- 6-19
Fraser, James	Carbon (Duplicate)	286	25- 8-19
France, Harry	Calgary	288	8-10-19
Flynn, Thomas E.	Coleman	306	26- 7-20
Ford, George C.	Drumheller	310	26- 7-20
Fudge, George H.	Foothills	311	26- 7-20
Fisher, Harry	Hillcrest	338	26- 7-20
Fourneau, Jean F.	Bellevue	396	1- 8-21
Ferryman, Henry	Corbin, B.C.	447	16- 6-22
Foster, Richard	Edmonton	502	29-12-22
Fleming, Nelson	Coleman	550	1-11-23
Fulton, James	Champlon	652	12- 8-27
Fry, N.	Donalda	752	5- 9-29
Fox, A. A.	Canmore	808	29-10-30
Finkbiner, Henry	Scapa	30	26- 7-31
Foster, Cyril E.	Rocky Mountain House	60	2- 6-32
Fridel, Stephen	Barrhead	63	25- 6-32
Foye, Edward B.	Delia	93	1-11-32
Forshaw, Richard	East Coulee	138	26- 1-34
Fisher, Samuel	Drumheller	139	26- 1-34
Fawcett, Elmer S.	Cardiff	150	9- 6-34
Farmer, James	Drumheller	176	27- 8-34
Farmer, Eli	Drumheller	189	10- 6-35
Fisher, John M.	Chin	190	10- 6-35
Fregren, Eric	Mercoal	280	11- 2-38
Fox, Benjamin	Carbon	297	11- 6-38
Folden, Irvine A.	East Coulee	323	9- 8-38
Fox, Alfred Jr.	Carbon	334	19- 9-38
Fraser, Wm. B. Jr.	Coleman	350	8- 6-39
Giffen, H. R.	Coalfields	19	26- 4-04
*Gates, H.	Coleman	26	26- 4-04
Griffiths, E. H.	Canmore	33	5-12-04
Gatiss, R.	Long Coulee	85	25-11-09
Gladwin, J.	Edmonton	97	20-12-09
Griffiths, T. J.	Lille	77	18- 6-09
Gillespie, John M.	Coleman	111	2- 6-10
Gilliland, William	Cardiff	123	8-11-10
Gwilliam, David J. M.	Namao	130	22-12-10
Gregory, John B.	Passburg	128	17-12-10
Garrett, John	Lille	147	4- 7-11
Griffiths, John T.	Lille	168	17-11-11
Garbett, Richard	Michel, B.C.	180	23-11-11
Corton, James	Hillcrest	203	22- 7-12
Green, Henry V.	Halkirk	1	1-11-13
Grant, Robert H.	Three Hills	2	23-10-13
Grant, Robert	Lethbridge	10	10- 3-14
Goldie, William	Lethbridge	24	1- 4-14
Graham, Robert	Clover Bar	50	27-11-14
*Gilday, Michael E.	Drumheller	63	11-12-14
Gillespie, John C.	Drumheller	132	3- 8-16
Greenhalgh, Richard M.	Coleman	154	7- 7-17
Givens, John	Drumheller	158	10- 7-17
Goodrick, William L.	Commerce	168	17- 7-17
Goodwin, Andrew	Bellevue	187	13- 8-17
Gammie, John S.	Drumheller	226	8- 6-18
Grant, Donald A.	Hillcrest	242	26- 6-19
Gordon, Thomas	Drumheller	248	26- 6-19
Green, Henry V.	Halkirk (Duplicate)	291	15-11-19

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Goodwin, G. W.	Bellevue	320	26- 7-20
Gidman, J. H.	Taber	348	26- 7-20
Gibson, Henry	Edmonton	349	26- 7-20
Gilmour, Pete	Bragg Creek	363	26- 7-20
Gibson, William	Edmonton	370	26- 7-20
Goodwin, Watts	Bellevue	408	1- 8-21
Galbraith, A. G.	Coalhurst	460	31- 7-22
Gregory, William W.	Mountain Park	496	6- 9-22
Gavelin, Fred	Blairmore	519	17- 8-23
Gibson, Joseph C.	Cardston	587	24- 1-25
Gilmour, John	Cadomin	605	25- 7-25
Gordon, David L.	Drumheller	636	6- 8-26
Gibson, Thomas P.	Midlandvale	663	16- 9-27
Gallagher, John	Rosedale Station	760	4- 6-30
Goodwin, William	Bellevue	766	4- 6-30
Green, William	Luscar	775	10- 6-30
Guisto, G.	Beazer	6	13- 7-31
Gotheridge, W. V.	Round Hill	26	26- 7-31
Goodwin, Albert E.	Bellevue	43	26- 7-31
Gibson, James	Willow Creek	75	25- 6-32
Guiney, C. John	Rosebud	79	25- 6-32
Galenza, P. L.	Leduc	113	3- 7-33
Gardner, H. H.	Coleman	135	31-10-33
Grenda, Stanley	Turin	198	28- 6-35
*Graver, G.	East Coulee	201	4- 7-35
Garner, E. Denison	Canmore	222	3- 6-36
Gibney, Frank	Grande Prairie	260	23- 6-37
Greig, Norman	Dinant	293	10- 6-38
Grant, Alexander	Hillcrest	298	13- 6-38
Groombridge, Thos.	Edberg	312	4- 7-38
Green, Walter	East Coulee	328	29- 8-38
Green, Wm. J.	Dinant	343	13- 2-39
Gill, Peter	Thorsby	352	8- 6-39
Griffiths, Ed.	Foothills	367	22- 6-39
Gotheridge, C. F.	Round Hill	370	22- 6-39
Grubisich, Walter	Hinton	375	4- 7-39
George, Pete	Three Hills	386	25- 7-39
Holmes, G. E.	Fernie, B.C.	15	1- 9-03
Hood, Andrew	Frank	20	21- 6-03
Harrison, Thomas	Cadomin	29	11- 7-04
Haines, Thomas	Coleman	37	23-12-04
Harvie, Robert	Lethbridge	40	23-12-04
Hallworth, Albert	Bellevue	52	12- 6-08
Hayes, Robert	Blairmore	60	22- 1-09
Henderson, W.	Calgary	61	26- 1-09
Harvie, John	Taber	68	1- 2-09
Higgins, Alfred	Bankhead	25	15- 5-07
Hannen, James	Canmore	1	30- 5-06
*Holden, James	Bankhead	13	3- 1-07
Hadfield, John	Coleman (Duplicate)	21	4- 4-07
Humble, Stephen T.	Bellevue	29	23- 5-07
Hamilton, Charles	Edmonton	36	10- 1-08
Hilling, James	Coleman	43	23- 1-08
Hutton, Isaac	Bellevue	99	27-12-09
Hartley, William	Bankhead	110	2- 6-10
Hill, James	Canmore	114	3- 6-10
*Hulme, Chas.	Hillcrest	124	17-12-10
Henderson, James	Reid Hill	134	30-12-10
Hutton, John	Edmonton	135	30-12-10
Henderson, Samuel	Reid Hill	136	30-12-10
Halliday, George	Champion	155	8- 7-11
Hughes, William R.	Barnwell	181	23-11-11
Hutton, George	Bellevue	186	2-12-11
Hutchinson, Peter	Ardley	202	22- 7-12
Heap, Robert	Lundbreck	206	10- 8-12
Hunter, Alexander B.	Drumheller	207	10- 8-12
Harries, Henry C.	Coleman	209	26-10-12
Hutton, David T.	Bellevue	241	31- 7-13
Halliday, George W.	Nanaimo, B.C. (Duplicate)	248	31- 7-13
Heathcote, Joseph	Edmonton	32	28- 4-14
Harmison, William	Cassidy, B.C.	41	27- 8-14
Hynd, William	Elcan	52	27-11-14
Hutton, Hugh	Bellevue	60	5-12-14
Hargreaves, George	Lethbridge	65	11-12-14
Hopkins, William	Coleman	93	1- 9-15
Huddart, Matthew	Bellevue	102	18-11-15
Hamilton, John	Lethbridge	120	10- 7-16
Howells, John	Elcan	126	19- 7-16
Hyde, Isaac	Cadomin	134	15- 9-16
Holmes, Robert	Coleman	141	11-11-16
Hunter, John T.	Garden Plain	148	7- 7-17

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Holland, Thomas	Lethbridge	161	10- 7-17
Hastings, Andrew P.	Champion	176	10- 7-17
Higgins, John	Bellevue	201	18- 4-18
Hodgkinson, John A.	Mountain Park	205	1- 6-18
Hudyma, John	Pocahontas	207	1- 6-18
Head, James	Taber	209	1- 6-18
Hooks, John W.	Drumheller	210	1- 6-18
Hedges, Richard	Beverly	239	29- 8-18
Higney, John	Coalhurst	245	26- 6-19
*Hillary, John	Rosedale	258	26- 6-19
Hopkins, John T.	Coleman	259	26- 6-19
Hunter, James	Lethbridge	276	26- 6-19
Huff, L. E.	Lethbridge	325	26- 7-20
Hutchison, J. J.	Lovett	332	26- 7-20
Hawkins, E. L.	Nordegg	339	26- 7-20
Hillary, Joseph	Drumheller	391	1- 8-21
Hamilton, Thomas M.	Blairmore	393	1- 8-21
Hutchinson, George E.	Nordegg	404	1- 8-21
Hall, James	Brookdale	402	1- 8-21
Hetherington, R. Jr.	Wayne	420	1- 8-21
Hogg, Charles M.	Lethbridge	424	1- 8-21
Hamilton, Joseph J.	Lethbridge	434	29- 2-21
Hall, Ernest	Wayne	438	10-10-21
Horner, Charles	Edmonton	440	16-12-21
Hopkins, William H.	Drumheller	451	31- 7-22
Hooten, Robert	Edmonton	505	15- 2-23
Hughes, Harry	Natal, B.C.	506	9- 3-23
Harris, Rupert S.	Edmonton	513	17- 8-23
Hawkins, Harold	Drumheller	541	1- 9-23
Hulme, James	Carbon	564	26- 2-24
Hart, Daniel	Wayne	566	26- 6-24
Hadfield, W. A.	Coleman	567	16- 7-24
Harries, John	Wayne	568	16- 7-24
Hughes, Angus	Coleman	572	24- 7-24
Horne, James	Cadomin	576	1- 8-24
Holliday, William	Drumheller	596	20- 7-25
Hagblad, Theodore	Lethbridge	602	25- 7-25
Hetherington, Joseph W.	Carbon	609	25- 7-25
Hronek, Ben	Halkirk	614	1- 8-25
Hibbert, William T.	Dinant	622	11- 5-26
Hansen, Knud	Aerial	644	1- 8-27
Henderson, Andrew	Wayne	655	14- 8-27
Hamilton, John M.	Hanna	657	14- 8-27
Hillary, Michael	Midlandvale	665	26-10-27
*Horne, Thos. Jr.	Luscar	687	1- 8-28
Hart, James J.	Coleman	692	16- 8-28
Hall, Robert	Canmore	703	24-11-28
*Hadwell, A. J.	Bellevue	717	7- 6-29
Halbert, David	Trochu	723	7- 6-29
Hillary, H.	Bellevue	736	17- 6-29
Hulbert, H. A.	Coleman	747	23- 7-29
Hutton, Walter C.	Coalhurst	756	18- 2-30
Hopkins, Arthur J.	Foothills	761	4- 6-30
Heyworth, E. S.	Beverly	763	4- 6-30
Hunter, Thomas	Edmonton	805	22-10-30
Hooks, Albert	Drumheller	807	29-10-30
Harrop, Wm.	Robb	2	29- 1-31
Hogg, John	Foothills	22	13- 7-31
Hadwell, Thomas C.	Blairmore	27	26- 7-31
Howells, Edward W.	Meroal	52	6- 1-32
Halbert, Robert	Trochu	71	25- 6-32
Hook, Alfred J.	Halkirk	78	25- 7-32
Holton, Joseph	Magrath	140	5- 4-34
Hill, Ernest	Coleman	144	5- 6-34
Halbert, Benjamin G.	Trochu	151	9- 6-34
Hanson, Andrew	Three Hills	187	10- 6-35
Halbert, Robert A.	Trochu	217	23- 9-35
Hilbert, Waddington	Meroal	240	13-10-36
Holliday, Thomas	Drumheller	247	1- 6-37
Hanna, Thomas	Meroal	269	21- 7-37
Horz, E. Louis, C. J.	Evansburg	308	22- 6-38
Hamilton, Duncan C.	Drumheller	320	28- 7-38
Henry, Wm. B.	Newcastle	339	9-11-38
Hetherington, W. B.	Calgary	340	9-11-38
Honeyman, Maurice R.	Robb	369	22- 6-39
Heidel, Herbert G.	Priddis	401	12-10-39
Ironmonger, John	Hillcrest	145	3- 7-41
Instone, Henry	Hillcrest	197	3- 4-18
Ironmonger, William	Hillcrest	487	1- 8-22
Ivan, Mike	East Coulee	199	28- 6-35
Inverarity, William	Rosebud	382	4- 7-39

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Jones, Evan	Coalfields	12	26- 4-04
James, Joseph	Frank	25	26- 4-04
Jones, Samuel A.	Nanaimo, B.C.	17	26- 4-04
Jones, Erskine	Coalfields	47	18- 4-05
James, Henry	British Columbia	53	14- 7-08
Jones, David	Edmonton	69	1- 2-09
Jones, Jack	Cardiff	127	17-12-10
Jones, Peter	Lethbridge	195	13- 7-12
Jordan, William	East Coulee	220	20-11-12
Joyce, Michael	Blairmore	224	25-11-12
*James, William	Pocahontas	234	31- 7-13
Jackson, John	Belleview	246	31- 7-13
James, John	Cadomin	28	21- 4-14
Jones, David	Commerce	55	27-11-14
Johnson, Albert	Coleman	88	26- 8-15
Jones, Daniel H.	Lovett	99	10-12-15
Jones, Evan J.	Calgary	144	3- 7-17
Jinks, William E.	England	180	25- 7-17
Jones, John H.	Taber	214	1- 6-18
James, Isaac A.	Coleman	252	26- 6-19
Jones, Richard	Nordegg	289	8-10-19
Johnstone, Alexander	Clover Bar	329	26- 7-20
James, Thomas	Saunders	340	26- 7-20
Jones, Griffith	Willow Creek	375	17- 6-21
Jordon, Benjamin	Calgary	463	31- 7-22
Jones, Edward B.	Hillcrest	469	31- 7-22
Jones, Daniel	Edmonton	474	31- 7-22
Jones, Richard M.	Wayne	491	1- 9-22
Jackson, Thomas	Coleman	495	1- 9-22
Jones, Arthur	Coleman	547	15- 8-23
Johnson, Chris.	Carbon	561	28-12-23
Jones, David I.	Wayne	578	11- 8-24
*Jones, L.	Edmonton	589	3- 3-25
Jones, Elias	Coleman	680	1- 8-28
Johnson, Thomas	Drumheller	696	16- 8-28
Jubb, J. W.	Drumheller	708	1- 5-29
Jones, Jenkin	Luscar	771	4- 6-30
James, Isaiah	Rumsey	801	18-10-30
Johnson, Moses F.	Alix	804	18-10-30
James, Albert J.	Forestburg	25	26- 7-31
Jones, Douglas W.	Pincher Creek	49	27- 9-31
Johnson, Alexander J.	Ardley	68	25- 6-32
Jones, Wm. J.	Rosalind	74	25- 6-32
Jones, W. J.	Newcastle	100	10- 6-33
Jones, E. W.	Drumheller	127	22- 8-33
Jones, David	Wayne	133	25- 9-33
James, Hiram	Heisler	158	16- 6-34
James, Alfred	Drumheller	182	12-10-34
Johnson, Martin R.	Rumsey	234	22- 6-36
Jones, Wyndham	Coleman	246	1- 6-37
James, Joseph	Cadomin	248	3- 6-37
Jones, J. R. B.	Hinton	301	22- 6-38
Kerr, W. R.	Coleman	89	29-11-09
*Kirkeberg, Henry S.	Michel, B.C.	87	27-11-09
Kerr, Robert T.	Passburg	75	17- 6-09
Kerr, Robert	Lundbreck	76	17- 6-09
Kaye, Herschal	Maycroft	191	4- 1-12
Kemp, David	Beaver Mines	201	22- 7-12
Keynon, William	Mountain Park	44	28- 9-14
Knox, Joseph	Hardieville	119	10- 7-16
Kelly, Patrick	Edmonton	147	7- 7-17
Kerrison, Thomas W.	Magrath	163	10- 7-17
Koentges, John	Blairmore	182	25- 7-17
Kyle, Daniel C.	Hillcrest	185	25- 7-17
Klejko, Stephen	Coleman	213	1- 6-18
King, John J. J.	Nordegg	221	8- 6-18
Kirkham, Thomas	Sheerness	284	26- 6-19
Kehl, Isodore	Big Valley	359	26- 7-20
Krause, Herman F.	Lethbridge	407	1- 8-21
Kay, Arthur	Coleman	501	1-11-22
Klatt, Rudolph E.	Evansburg	544	1- 9-23
Knudson, Arthur	Canmore	586	4-12-24
Kendrick, Samuel O.	Edmonton	597	20- 7-25
Kennedy, William	Mountain Park	606	25- 7-25
Kergan, Robert G.	Lethbridge	610	25- 7-25
Krupper, A.	Drumheller	711	7- 6-29
King, Joseph	Coalhurst	726	7- 6-29
Kay, Walter S.	Drumheller	754	12-11-29
Kerr, Robert G.	Blairmore	764	4- 6-30
Koentges, Joseph	Belleview	770	4- 6-30
Kowal, Alex.	Canmore	790	14- 6-30

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Kennedy, Joseph	Willow Creek	799	10- 9-30
Kiernan, Patrick	Robb	3	20- 2-31
Kay, William	Drumheller	53	26- 2-32
Kirkeby, B. A.	Craigmyre	101	10- 6-33
Keough, Frank J.	Drumheller	134	30- 9-33
Kurp, Benjamin C.	Alix	143	5- 6-34
Kurp, Thomas J.	Delburne	172	13- 8-34
Krossa, O.	Shaughnessy	181	9-10-34
Keith, Albert	East Coulee	250	11- 6-37
Keith, Roy	Willow Creek	254	11- 6-37
Knight, William	Carbondale	261	23- 6-37
Kane, Frank	Hinton	344	3- 4-39
Koshman, Alexander T.	Shaughnessy	372	22- 6-39
Kozmeniuk, Steve	East Coulee	378	4- 7-39
Livingstone, Robert	Lethbridge	7	21-11-98
*Livingstone, Jas. C.	Lethbridge	18	26- 4-04
Learmonth, A. J.	Redcliff	42	23- 1-08
Love, William	Edmonton	86	27-11-09
Lamont, David	Cadomin	98	24-12-09
Letcher, John J.	Hillcrest	149	4- 7-11
Leblanc, Emile	Wayne	153	8- 7-11
Littler, Robert	Michel, B.C.	166	17-11-11
Loxton, George	Fernie, B.C.	176	17-11-11
Littler, John	Michel, B.C.	190	30-12-11
Littler, Matthew	Michel, B.C.	226	7-12-12
Laight, Jonas	Medicine Hat	233	3- 5-13
*Ludbrook, Ellis E.	Bickerdike	237	31- 7-13
Lynch, Stewart	Canmore	26	15- 4-14
Loxton, John	Fernie, B.C.	51	27-11-14
Letcher, Joseph H.	Lovett	100	12-10-15
Lamond, David	Evansburg	109	10- 7-16
Loftus, Edward	Drumheller	111	10- 7-16
Lewis, Thomas	Hardieville	131	26- 7-16
Longworth, Thomas	Calgary	146	5- 7-17
Logan, John T.	Drumheller	190	6- 9-17
*Lote, Francis	Hillcrest	195	3- 4-18
Lohmaier, Peter	Sheerness	238	15- 7-18
Lee, Walter J.	Nordegg	269	26- 6-19
Lindsay, John	Coalhurst	272	26- 6-19
Lindsay, James	Coalhurst	273	26- 6-19
Lawrence, John	Drumheller	294	1-12-19
Lewis, Hanbury	Calgary	364	1-11-20
Leonard, Philip	Nordegg	479	1- 8-22
Lytkowski, William P.	Canmore	503	30-12-22
Lecuyer, Glenn	Midlandvale	562	31-12-23
Lewis, John W.	Mountain Park	580	25- 9-24
Lavis, George	East Coulee	585	14-11-24
Longworth, John	Bellevue	634	30- 7-26
Lowry, William J.	Drumheller	641	22- 9-26
Leitch, Thomas	Drumheller	660	1- 9-27
Lazzarotto, Peter	Picture Butte	682	1- 8-28
Lammie, Robert	Beverly	694	16- 8-28
Lehmann, Max	Wayne	742	5- 7-29
Lund, Fred	Blairmore	767	4- 6-30
Laing, W. R.	Cadomin	774	10- 6-30
Letcher, R. C.	Hillcrest	795	12- 7-30
Leivers, Albert	Wayne	12	13- 7-31
Low, James A.	Coleman	147	5- 6-34
Loten, Henry V.	Newcastle	186	20- 2-35
Lonsbury, W. P.	Coleman	191	10- 6-35
Lloyd, James H.	Blairmore	192	10- 6-35
Lewis, Fred	Mountain Park	227	22- 6-36
Lister, Arthur L.	Cadomin	232	22- 6-36
Lynass, John	Delburne	267	13- 7-37
Lounella, Sula A.	Canmore	295	10- 6-38
Lynass, James C.	Delburne	310	22- 6-38
Lesson, Steve	Bellevue	354	8- 6-39
Loula, William	Bellevue	374	22- 6-39
Luini, Louis	Hillcrest	376	4- 7-39
Musgrove, William	Canmore	9	23- 8-00
Mattson, Matt	Frank	34	5-12-04
*Morris, David	Edmonton	45	24- 2-08
Machin, J. C.	Strathcona	46	26- 2-08
Moore, Thomas E.	Drumheller	56	11- 1-09
Mather, Thomas	Luscar	96	8-12-09
Morgan, Owen	Saunders	143	3- 7-11
Munro, William K.	Lille	150	4- 7-11
Muir, David	Edmonton	151	8- 7-11
Miller, Walter	Edmonton	159	25- 8-11
Moore, James H.	Coleman	167	17-11-11
Massey, Harry	Michel, B.C.	172	17-11-11

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Murray, John	Lille	174	17-11-11
Mason, Samuel	Taber	187	6-12-11
Morrison, Malcolm	Midlandvale	189	30-12-11
Melling, Peter	Coalhurst	208	26-10-12
Mackie, John	Hillcrest	221	25-11-12
Makin, John W.	Coleman	240	31- 7-13
Muir, Alexander	Hardieville	12	10- 3-14
Miller, Joseph	Stafford Village	14	10- 4-14
Muir, Robert	Bankhead	21	23- 3-14
Murray, David	Hillcrest	35	26- 5-14
Mather, John	Edmonton	45	26-10-14
Muir, James	Bankhead	57	5-12-14
Marsh, Ernest	Wayne	61	5-12-14
Morgan, William J.	Luscar	64	11-12-14
Martin, William H.	Brule	69	28- 1-15
Marsh, John H.	Lethbridge	75	20- 3-15
*Mallabone, Ernest	Canmore	105	7- 7-16
Miller, David L.	Taber	114	10- 7-16
Millar, Peter P.	Drumheller	127	26- 7-16
*Martin, Richard	Taber	135	25- 9-16
Maddison, Wm.	Mountain Park	136	25- 9-16
Mitchell, John	Evansburg	143	27- 2-17
Morgan, Robert M.	Coleman	160	10- 7-17
*Morse, A. T.	Morse	172	17- 7-17
Michayluck, John G.	Luscar	184	25- 7-17
Marsh, William	Drumheller	230	8- 6-18
Mathewson, James	Nevis	236	22- 6-18
Mossey, Thomas M.	Lethbridge	237	5- 7-18
Miller, James	Aerial	266	26- 6-19
Miller, John R.	Aerial	293	20-11-19
Monkton, William	Rosedale	322	26- 7-20
Miller, Joseph Jr.	Lethbridge	326	26- 7-20
Milnes, John	Bellevue	334	26- 7-20
Melling, Joseph	Coalhurst	335	26- 7-20
Maddison, John	Hillcrest	354	26- 7-20
Melvin, J. L.	Lethbridge	371	28-12-20
Meyers, August	Grande Prairie	406	1- 8-21
Minue, Graydon B.	Nordegg	410	1- 8-21
Mitchell, Archie	Luscar	412	1- 8-21
Metcalf, Joseph W.	Coalhurst	498	1-11-22
Mossey, Robert	Frank	507	17- 5-23
Macri, D.	Cadomin	518	17- 8-23
Martin, David	Blairmore	527	17- 8-23
Miller, William	Drumheller	535	17- 8-23
Marsh, Walter	Kellog, Idaho	538	17- 8-23
*Martin, Henry Sr.	Saunders	549	15- 9-23
Mitchell, Hugh J.	Foothills	569	24- 7-24
Muir, Alexander	Coleman	593	20- 7-25
Mackie, James	Big Valley	608	25- 7-25
Millar, David	Mercoal	627	26- 7-26
Mackie, William	Drumheller	645	1- 8-27
Metcalf, Joseph W.	Drumheller	666	16- 1-28
Musgrove, Henry B.	Canmore	674	19- 7-28
Muncy, Howard C.	Foreman	693	16- 8-28
Mayon, Daniel	Drumheller	707	20- 3-29
Millar, C. C.	Beverly	714	7- 6-29
Morris, David	Bellevue	720	7- 6-29
Mossom, John	Drumheller	734	17- 6-29
Meek, Fred G.	Heisler	737	17- 6-29
Morris, Wm.	Edmonton	744	12- 7-29
Morris, Robert S.	Aerial	745	12- 7-29
Marsh, Wm. J.	Midlandvale	776	10- 6-30
May, John	Beverly	786	14- 6-30
Mathieson, David	Edmonton	789	14- 6-30
Muir, Thomas	Coalhurst	800	18-10-30
Morgan, Ernest	Blairmore	15	13- 7- 31
Madsen, S.	Luscar	39	26- 7-31
Marsh, John	Coalhurst	51	6- 1-32
*Mitchell, Chas. G.	Pincher Creek	82	24- 8-32
Marsh, Walter	Coleman	84	24- 8-32
Mitchinson, Arthur	Donalda	88	23- 9-32
Molyneux, Thomas	Aerial	102	10- 6-33
Molzan, Henry	East Coulee	111	15- 6-33
Muir, James	Edmonton	137	28-12-33
Morse, William J.	Hanna	156	12- 6-34
Mitchell, William	Dimsdale	174	27- 8-34
Morel, Marcel	Ghost Pine Creek	180	25- 9-34
Menzies, Wm.	Drumheller	212	10- 8-35
Miller, Douglas	Edmonton	236	4- 7-36
Marshall, Robert	Leduc	255	11- 6-37
Marshall, Chas. H.	Leduc	256	11- 6-37

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Mitchell, Thomas	Coleman	257	23- 6-37
Muir, George	Edmonton	265	13- 7-37
Marsh, Walter W.	Delburne	279	12-11-37
Mills, Jonathan J.	Rosalind	283	22- 4-38
Miskow, Michael J.	Canmore	284	7- 6-38
Morkwia, Victor Jr.	Canmore	285	7- 6-38
Morris, Robert L.	Coleman	294	10- 6-38
Murphy, Peter J. Jr.	Drumheller	325	15- 8-38
Moran, James Jr.	Edmonton	342	10-12-38
Melson, Philip	East Coulee	359	8- 6-39
Marconi, John	Coleman	363	22- 6-39
Marshall, Albert C.	Delia	365	22- 6-39
Mitchell, David	Luscar	380	4- 7-39
Martin, Bert W.	Alexo	385	25- 7-39
Madsen, Soren	Mountain Park	406	30-11-39
McKain, John J.	Lethbridge	5	19-11-98
McKinnon, H. G.	Canmore	36	5-12-04
McGregor, Alex.	Cardiff	41	16- 1-05
McCulloch, Alex.	Cadomin	43	18- 4-05
McDonald, J. A.	Blairmore	44	18- 4-05
McVey, William	Frank	39	10- 1-08
McLeary, Stewart	Lethbridge	58	12- 1-09
McMillan, William D.	Coleman	72	25- 2-09
McKinnon, A. J.	Canmore	62	29- 1-09
McLennan, John A.	Lovett	51	8- 6-08
McGarry, Martin	Michel, B.C.	59	19- 1-09
McDonald, James A.	Lille	91	29-11-09
McMillan, Donald	Coleman	107	31- 5-10
McDonald, Duncan	Drumheller	112	2- 6-10
McDonald, Hector	Coleman	115	3- 6-10
McDonald, William C.	Lethbridge	122	16- 7-10
McDevitt, James J.	Cadomin	129	22-12-10
McGladrie, John	Lille	152	8- 7-11
McMullin, Joseph	Hillcrest	171	17-11-11
McGough, Joseph P.	Bellevue	219	18-11-12
McDonald, James O. C.	Coleman	225	25-11-12
McDonald, Noble M.	Bellevue	5	28-11-13
McGowan, James K.	Lethbridge	13	10- 3-14
McLeod, John A.	Cadomin	74	8- 3-15
McLellan, John A.	Mercoal	77	8- 5-15
McIlveen, William	Lovettville	80	19- 8-15
McAndrew, Robert	Clover Bar	81	19- 8-15
McAndrew, John	Calgary	83	19- 8-15
McKean, George J.	Bellevue	121	10- 7-16
McLean, William	Mountain Park	122	10- 7-16
McQueen, Andrew	Edmonton	124	19- 7-16
McMillan, Daniel	Drumheller	149	7- 7-17
McDonald, John H.	Nanaimo, B.C.	164	10- 7-17
McKinnon, John L.	Coleman	189	4- 9-17
McAndrew, Robert	Clover Bar (Duplicate)	196	3- 4-18
McDonald, George	Drumheller	212	1- 6-18
MacKay, William J. K.	Ontario	240	28- 1-19
McDicken, James	Coleman	251	26- 6-19
McFegan, Robert	Michel, B.C.	255	26- 6-19
MacPherson, John M.	Coalhurst	257	26- 6-19
McQueen, George	Nordegg	270	26- 6-19
McDade, John	Drumheller	290	8-11-19
McGowan, William	Lethbridge	317	26- 7-20
McKinnie, John	Drumheller	369	26- 7-20
McAskill, Alexander	Pocahontas	376	17- 6-21
McGaw, A. M. S.	Drumheller	380	1- 8-21
McGregor, Thomas B.	Carmangay	398	1- 8-21
McNab, Murdoch	Lethbridge	417	1- 8-21
McLeod, Gordon J.	Coalhurst	419	1- 8-21
McLeod, Andrew	Mountain Park	422	1- 8-21
McGladne, Andrew	Lethbridge	423	1- 8-21
MacDonald, William	Drumheller	431	29- 8-21
McCubrey, James	Drumheller	458	31- 7-22
McGuire, George	Dinant	466	31- 7-22
McGuire, James S.	Dinant	467	31- 7-22
MacLeod, Roderick	Coleman	470	31- 7-22
McEachern, Malcolm	Wayne	531	17- 8-23
McLennan, George A.	Drumheller	534	17- 8-23
MacNeil, James	Cadomin	537	17- 8-23
McLeod, Allan	Rosedale	543	1- 9-23
McLafferty, P.	Bellevue	551	1-11-23
McLeod, John R.	Bellevue	591	27- 5-25
McAllister, David	Mountain Park	613	1- 8-25
McKinnon, Alexander	Coleman	632	30- 7-26
McCulloch, Johnston	Coleman	642	30- 7-26
McDonald, Thomas	Rosedale	653	12- 8-27

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
McFegan, Alex.	Drumheller	661	10- 9-27
*McCormack, A. D.	Castor	675	19- 7-28
Macaulay, John C.	Coalhurst	678	19- 7-28
MacDonald, Clyde P.	Bellevue	685	1- 8-28
McDonald, James W.	Mountain Park	709	1- 5-29
MacDonald, Leslie	Bellevue	713	7- 6-29
MacLeod, Lloyd	Coalhurst	725	7- 6-29
MacAllister-Thompson, D. S. B.	Rosedale	735	17- 6-29
McNab, Duncan	Lethbridge	739	17- 6-29
McAndrew, John Jr.	Blairmore	769	4- 6-30
McDonald, William	Bellevue	777	10- 6-30
McCutcheon, Jas. A.	Midlandvale	803	18-10-30
McMurdo, Thomas	East Coulee	18	13- 7-31
McLeod, Arthur	Drumheller	50	22-10-31
McGowan, John	Drumheller	57	2- 6-32
McKinley, James	Huxley	72	25- 6-32
McColl, Alexander	Lethbridge	109	15- 6-33
McMillan, William	Rosebud	168	26- 7-34
McKinlay, James	Perbeck (Duplicate)	224	3- 6-36
McDonald, Wm. I.	Drumheller	235	22- 6-36
MacDonald, George G.	Beverly	242	14- 1-37
McGregor, Alexander	Lethbridge	271	26- 7-37
MacKenzie, John	East Coulee	299	13- 6-38
McMullen, Sidney G.	Drumheller	311	22- 6-38
McIntyre, Arnold J.	Mercoal	331	7- 9-38
McLaren, Fred	Dinant	341	14-11-38
McCulloch, Archibald	Coleman	349	8- 6-39
MacQuarrie, Hector	Drinnan	364	22- 6-39
McLaughlin, Michael	Luscar	403	30-10-39
Nelson, Horatio	Lundbreck	11	3- 1-07
Nanson, Thomas H.	Bellevue	15	3- 1-07
*Nicol, James	Frank	34	26-12-07
Nicol, George	Nacmine	27	21- 4-14
Nugent, Bernard	Camrose	133	30- 8-16
North, Walter	Blairmore	204	18- 4-18
Nicholson, Peter	Cadomin	472	31- 7-22
Niskanen, Herman	Canmore	671	19- 7-28
Nisbet, George	Beverly	759	4- 6-30
Negrello, Mike	Coalhurst	7	13- 7-31
Naegeli, Otto	Midlandvale	54	26- 2-32
Novak, Mike	Milk River	56	4- 5-32
Norman, John	Beverly	136	31-10-33
Nielsen, Nils P.	Carbondale	223	3- 6-36
Nelson, John B. H.	Dinant	335	19- 9-38
Nelson, John	Rosedale Station	356	8- 6-39
Oliphant, J. H.	Carbon	26	17- 5-07
Oliphant, John	Medicine Hat	79	16- 7-09
O'Donnell, Thomas	Rosedale	139	17- 3-11
Ottewell, William J.	Clover Bar	245	31- 7-13
Oakes, Robert	Blairmore	104	10- 6-16
Oakley, John	Edmonton	115	10- 7-16
Oliver, B.	Magrath	342	26- 7-20
Owen, Thomas	Michel, B.C.	442	10- 3-22
Ostler, James	Taber	445	22- 5-22
Oldham, Albert	Luscar	579	11- 8-24
Oliver, Edward	Taber	584	14-11-24
Ottewell, Cedric P.	Clover Bar	620	25-11-25
O'Neill, Michael	Nordegg	748	9- 8-29
Ordge, John	Donalda	80	25- 7-32
Owens, John	Midlandvale	177	4- 9-34
Oswald, Joseph	Drumheller	178	10- 9-34
O'Brien, Anthony	Gadsby	244	10- 3-37
Oxbury, John	Beynon	327	26- 8-38
*Phillips, Chas.	Frank	14	30-12-02
Prentice, John	Virginia, U.S.A.	67	1- 2-09
Powell, Albert E.	Lundbreck	71	4- 2-09
Picton, William	Frank	78	8- 7-09
Pounder, George	Pincher Creek	84	22- 9-09
Parker, Levi	Cardiff	100	18- 1-10
Pickering, G.	Taber	104	25- 2-10
Parry, Thomas	Hillcrest	119	21- 6-10
Park, Stewart G.	Lethbridge	121	25- 6-10
Patterson, John	Hillcrest	126	17-12-10
Picton, Daniel	Aerial	178	23-11-11
Park, William	Lethbridge	194	13- 7-12
Parkes, John T.	Lethbridge	236	31- 7-13
Park, Alex. C.	Lethbridge	25	8- 4-14
Porteous, Alexander	Hillcrest	36	26- 5-14
Purdy, Stearns J.	Lundbreck	37	28- 5-14
Parker, Joseph	Drumheller	47	25-11-14

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Puckett, Owen L.	Robb	53	27-11-14
*Pavier, Evan	Coleman	91	27-8-15
Price, Alfred	Montana, U.S.A.	103	4-1-16
Pitt, Arthur J.	Coleman	108	10-7-16
Phillips, David	Commerce	110	10-7-16
Price, John	Mountain Park	116	10-7-16
Pratt, Philip	Lovettville	117	10-7-16
Paterson, Patrick	Evansburg	139	3-10-16
Padgett, Albert	Belleview	177	17-7-17
Poole, Alexander	Drumheller	241	16-5-19
Prescott, William	Hillcrest	249	26-6-19
Painter, J. A.	Mountain Park	361	26-7-20
Parkinson, Harry	Coleman	465	31-7-22
Pearson, Francis	Hillcrest	468	31-7-22
Phipps, Mathew J.	Mountain Park	494	1-9-22
Price, John	Mountain Park	497	1-11-22
Patterson, William	Blairmore	515	17-8-23
Parry, Robert	Carbon	546	15-9-23
Poxon, Wilfred	Carbon	555	15-11-23
Peters, Frederick C.	Wayne	582	25-9-24
Price, Richard	Hillcrest	590	21-4-25
Pickard, Joseph	Edmonton	592	20-7-25
Perry, James E.	Beynon	612	25-7-25
Powell, John E.	Newcastle Mine P.O.	700	22-8-28
Piper, John J.	Cammore	716	7-6-29
Paton, George	Delburne	727	7-6-29
Phillips, W. J.	Saunders	733	17-6-29
Page, Joseph	Drumheller	741	19-6-29
Peters, Wm. E.	Blairmore	762	4-6-30
Park, Angus	Edmonton	773	4-6-30
Patterson, S. E.	Blairmore	778	10-6-30
Pascoe, Thomas	Mountain Park	796	14-7-30
Potter, Harry	Drumheller	797	8-8-30
Price, Stanley R.	Blairmore	9	13-7-31
Pettigrew, Robert	Coleman	20	13-7-31
Phillips, W. T.	Castor	99	10-6-33
Popovich, Mike	Champion	112	3-7-33
Pike, Sidney G.	Drumheller	119	24-7-33
Phillips, Alfred J.	Coleman	146	5-6-34
Poholka, Steve	Edmonton	149	9-6-34
Perini, John	Lethbridge	153	9-6-34
Parker, Jack	Cardiff	165	27-6-34
Potter, I. N.	Nacmine	167	26-7-34
Perini, Angelo	Granlea	194	10-6-35
Price, Wm. T.	Edmonton	195	14-6-35
Peta, Julius	Hardieville	225	4-6-36
Purdy, Denzil	Lundbreck	237	4-7-36
Passoli, E. L.	Vulcan	314	4-7-38
Parry, Joseph	Mercoal	316	8-7-38
Parobchak, F.	Carbondale	353	8-6-39
Plesuk, William	Beverly	357	8-6-39
Price, John C.	Coleman	377	4-7-39
Quigley, Daniel H.	Drumheller	157	14-7-11
Queen, Andrew M.	Lethbridge	228	26-12-12
Quin, James	East Coulee	66	25-6-32
Rice, Awrey	Edmonton	48	18-4-05
Rawson, Thomas S.	Frank	1	20-12-05
Rose, Walter	Lundbreck	54	25-8-08
Roberts, William	Strathcona	95	3-12-09
Robinson, John H.	Hillcrest	106	31-5-10
Rowbotham, William H.	British Columbia	116	6-6-10
Roberts, E.	Rosedale	118	20-6-10
Richardson, Alfred	Lethbridge	125	17-12-10
Richards, George	Coleman	137	31-12-10
Roberts, John	Cadomin	140	6-4-11
Reid, James	Canmore	158	24-7-11
Richards, Evan	Edmonton	162	17-11-11
Richards, Samuel	Bellevue	175	17-11-11
Rawlinson, Rowland	Cadomin	182	28-11-11
Rayner, Frederick	Frank	188	8-12-11
Radford, James	Bellevue	200	22-7-12
Rae, John	Coleman	242	31-7-13
Rankin, William	Hosmer, B.C.	4	28-11-13
Rebar, Mike	Hardieville	19	18-3-14
Rees, Daniel	Bellevue	56	27-11-14
Russell, Arthur	Standard	59	5-12-14
Russell, John	Ardley	67	20-1-15
Rees, Gomer	Beverly	96	12-10-15
Robinson, Edward	Chilliwack, B.C.	101	28-10-15
Roberts, David O.	Cardiff	106	7-7-16
Robert, David C.	Coleman	113	10-7-16

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Randall, David	Coleman	191	10-10-17
Reid, Edward	Drumheller	206	1- 6-18
Redpath, James	Wayne	208	1- 6-18
Reid, Samuel	Brule	211	1- 6-18
*Richards, Edward	Drumheller	271	26- 6-19
Rollingson, John	Lethbridge	280	26- 6-19
Ruscoe, Richard	Halkirk	282	26- 6-19
Roberts, Evan	Wayne	318	26- 7-20
Royle, Edward	Blairmore	323	26- 7-20
Robertson, W. H.	Coalhurst	333	26- 7-20
Rappel, Thomas	Canmore	337	26- 7-20
Rappel, A. J.	Calgary	355	26- 7-20
Richards, John C.	Coleman	386	1- 8-21
Richards, Thomas	Wayne	392	1- 8-21
Rees, William H.	Lethbridge	435	29- 8-21
Rowley, Arthur	Calgary	455	31- 7-22
Ridgeway, Leonard J.	Coalhurst	457	31- 7-22
Roberts, Robert	Wayne	464	31- 7-22
Richards, Harold	Hillcrest	484	1- 8-22
Roberts, Lemuel	Wayne	488	1- 8-22
Richards, M. C. Russell	Blairmore	509	17- 5-23
Rutherford, Leslie D.	Saunders West	565	6- 5-24
Rutherford, Wilson	Drumheller	583	30-10-24
Roome, Richard	Mountain Park	588	24- 1-25
Rhodes, William B.	Lundbreck	625	26- 7-26
Robertson, Alexander	Lethbridge	633	30- 7-26
Ramage, John	Coalhurst	648	12- 8-27
Ray, William J.	Hillcrest	669	22- 4-28
Rees, Ernest	Hillcrest	686	1- 8-28
Rochester, John J.	Carbon	689	1- 8-28
Roife, Emrys	British Columbia	691	16- 8-28
Russell, William C.	Drumheller	705	24-11-28
Rear, Albert E.	Corbin, B.C.	728	7- 6-29
Reid, Wm. P.	Lethbridge	732	17- 6-29
Radford, J. H.	Heisler	738	17- 6-29
Rogers, Benjamin	Canmore	753	5-11-29
Reed, John C.	Edmonton	779	10- 6-30
Raisbeck, A. B.	East Coulee	785	10- 6-30
Reynolds, Horace C.	Canmore	11	13- 7-31
Roberts, Simon	Cadomin	21	13- 7-31
Radoczy, Isaac C.	Aerial	23	13- 7-31
Ratcliffe, Thomas	Drumheller	24	13- 7-31
Robertson, Duncan	Drumheller	47	26- 7-31
Russell, Robert	Alix	69	25- 6-32
Rees, Sanford	Mountain Park	81	28- 7-32
Rhodes, George	Champion	96	10- 6-33
Rees, Edward D.	Bellevue	105	15- 6-33
Raeder, William	Elkwater	110	15- 6-33
Ross, A. W.	Delia	124	29- 7-33
Rozzolini, Albert	Raymond	126	29- 7-33
Radford, James T.	Bellevue	132	15- 9-33
Richards, Lorenzo	Coleman	142	5- 6-34
Riordan, Leo	Drumheller	173	13- 8-34
Ruffee, Harry G.	Nacmine	204	9- 7-35
Richardson, E. H.	East Coulee	205	17- 7-35
Raisbeck, Robt. M.	Drumheller	213	12- 8-35
Raisbeck, James	East Coulee	215	29- 8-35
Rebar, George	Lethbridge	229	22- 6-36
Roberts, Horace	Drumheller	251	11- 6-37
Rees, Daniel	East Coulee	273	27- 8-37
Richards, Lorenzo C.	Coleman	286	7- 6-38
Riva, Joseph	Canmore	288	8- 6-38
Remillard, Omer V.	Castor	304	22- 6-38
Raisbeck, Luke	East Coulee	330	7- 9-38
Ryning, James W.	Rowley	383	4- 7-39
Reissig, Erich	Willow Creek	388	12- 8-39
Robbins, John	Drumheller	390	17- 8-39
Richardson, John	Camrose	393	1- 9-39
Reynolds, Arthur E. V.	Mercoal	404	10-11-39
Scott, Robert	Lethbridge	6	19-12-98
*Scott, Hugh	Lethbridge	8	5- 6-99
Sedlock, Joseph	Canmore	22	25- 6-03
Smith, Robert	Canmore	32	5-12-04
Smith, Hugh	Belleview	35	5-12-04
Stott, John	Lethbridge	38	23-12-04
Spencer, W. J.	Bankhead	51	6- 7-05
Salmond, James M.	Bankhead	6	20-12-05
Sparrow, Edwin	Tawatinaw	2	20-12-05
Smith, Ralph	Canmore	3	30- 5-06
Singleton, Robert	Lundbreck	47	29- 5-08
Schmidt, O. P.	Edmonton	44	1 -2-08

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Sihvon, William	East Coulee	27	17- 5-07
Scott, Andrew N.	Luscar	28	23- 5-07
Smith, A. J. P.	Calgary	103	21- 2-10
Shaw, Thomas J.	Hinton	113	3- 6-10
Scott, Alexander	Pocahontas	185	28-11-11
Sheratt, Owen Sr.	Coleman	199	13- 7-12
Smith, Thomas	Hillcrest	216	1-11-12
Stobbs, Joseph	Diamond City	217	5-11-12
Shaw, Eli	Canmore	229	30- 4-13
Stephenson, Thomas	Bellevue	230	7- 4-13
Stott, John	Lethbridge (Duplicate)	231	7- 4-13
Stephenson, Joseph	Commerce	232	30- 4-13
Sandino, Joseph	Drumheller	238	31- 7-13
Steele, John W.	Lethbridge	17	16- 3-14
Severns, Matthew	Edmonton	42	8- 9-14
Spencer, Murray A.	Brule	43	18- 9-14
Snarey, George	Beynon	62	5-12-14
Sinclair, James	Drumheller	68	22- 1-15
Smith, John	Blairmore	94	1- 9-15
Smith, T. Edwin	Montana, U.S.A.	130	26- 7-16
Strickland, William	Evansburg	145	5- 7-17
Stratton, James M.	Taber	181	25- 7-17
Shaw, Tom	Bellevue	202	18- 4-18
Sorro, Christopher	Blairmore	203	18- 4-18
Steen, Herman	Hanna	277	26- 6-19
*Scott, Frederick G.	Nordegg	287	2- 9-19
*Sippell, Joseph	Drumheller	295	1-12-19
Stewart, James	Lethbridge	305	26- 7-20
Smith, Thomas	Coleman	307	26- 7-20
Saunt, James	Drumheller	309	26- 7-20
Steele, Francis M.	Calgary	319	26- 7-20
Stratton, A. T.	Medicine Hat	351	26- 7-20
Serrie, John	Taber	353	26- 7-20
*Sutherland, E. S.	Beverly	395	1- 8-21
Scott, Robert	Nordegg	399	1- 8-21
Shaw, William G.	Kimberley	409	1- 8-21
Shaw, Joseph H.	Kimberley	416	1- 8-21
Shaw, John H.	Nordegg	426	1- 8-21
Stene, David	Edmonton	430	29- 8-21
Strachan, John	Fernie, B.C.	437	29- 8-21
Sneddon, Thomas	Taber	444	3- 4-22
Shepperd, Geo. E.	Wayne	477	1- 8-22
Speaker, Pete A.	Calgary	489	1- 9-22
Smith, Andrew A.	Drumheller	522	17- 8-23
Shevels, John	Bellevue	523	17- 8-23
Smith, Sidney L.	Drumheller	552	1-11-23
*Studholme, John H.	Dinant	559	18-12-23
Simmons, Efner W.	Forestburg	611	25- 7-25
Stanley, Henry	Naemine	615	1- 8-25
Severns, Matthew	Valier, Mont. (Duplicate)	621	11- 5-26
Steward, Frederick G.	Drumheller	624	26- 7-26
Shearer, Peter	Cadomin	640	22- 9-26
Smith, Terence	Edmonton	646	1- 8-27
Stewart, George W.	Nordegg	667	16- 1-28
Shandruk, Henry K.	Edmonton	695	16- 8-28
Steven, Robert	Banff	701	22- 8-28
Smith, Peter	Coleman	718	7- 6-29
Scott, J. D.	Rosedale	722	7- 6-29
Snow, Percy E.	Lethbridge	729	7- 6-29
Strang, David	Mountain Park	746	23- 7-29
Shearer, J. C.	Rosedale	749	9- 8-29
Sherwood, Henry R.	Canmore	751	8- 8-29
Stevenson, Robert	Drumheller	757	25- 2-30
Smillie, Walter	Evansburg	772	4- 6-30
Sutherland, S. R.	Bellevue	782	10- 6-30
Sinoski, Mike	Edmonton	791	14- 6-30
Stewart, R. E.	Shaughnessy	802	18-10-30
Stene, Alexander	Cadomin	10	13- 7-31
Stanko, Martin	Drumheller	13	13- 7-31
Smith, John A.	Cadomin	31	13- 7-31
Simons, B. C.	Bellevue	36	26- 7-31
Saunders, Herbert A.	Cardiff	76	2- 7-32
Sward, Henry	Rose Lynn	104	10- 6-33
Schlender, Otto	Trochu	118	6- 7-33
Smillie, John	Drinnan	152	9- 6-34
Sprela, Martin	Willow Creek	163	19- 6-34
Schneider, Nick	Dimsdale	197	28- 6-35
Streich, Paul	Ardley	202	8- 7-35
Simpson, Frank	Naemine	206	22- 7-35
Smith, James	Wayne	211	10- 8-35
Stevenson, Morris	Drumheller	218	25- 9-35

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Shaw, Robert	Coleman	226	22- 6-36
Sinoski, Steve	Edmonton	252	11- 6-37
Sarsfield, William	East Coulee	273	27- 8-37
Stewart, Jas. M. Jr.	Nordegg	281	7- 3-38
Sheridan, Daniel	Lacombe	296	11- 6-38
Simpson, Edward	Edmonton	300	22- 6-38
Schymizek, John	Bright Bank	302	22- 6-38
Swan, Harry	Priddis	307	22- 6-38
Sirk, Tibor	Rosedale Station	319	21- 7-38
Stratton, Andrew T.	Redcliff (Duplicate)	329	7- 9-38
Smith, Harry	Drumheller	338	21-10-38
Scarpino, Eugene M.	Rosedale	389	14- 8-39
Swanson, Matthew	East Coulee	392	1- 9-39
Smith, Charles E.	Rosebud	396	12- 9-39
Steen, Alf C.	Rosedale Station	398	16- 9-39
Samis, Kenneth E.	Namao	402	18-10-39
Taylor, William	Lethbridge	10	16- 4-01
Turner, Samuel H.	Frank	21	25- 6-03
*Thomas, David	Bankhead	31	5-12-04
Thompson, Thos.	Lundbreck	16	3- 1-07
*Teppo, Herman	Bellevue	19	3- 1-07
Turner, Samuel H.	Frank (Duplicate)	22	8- 5-07
Tonge, Thomas	Lundbreck	5	30- 5-06
*Taylor, Thos.	Lundbreck	30	23- 5-07
Thomas, John J.	Frank	74	21- 4-09
Thompson, Thos.	Coleman	93	29-11-09
*Thomas, Jos. D.	Nacmine	81	25- 8-09
Thomson, Thomas W.	Bankhead	161	17-11-11
Thompson, Joseph	Coleman	165	17-11-11
Thomas, Isaac	Coleman	204	27- 7-12
Tully, Thomas	Fernie, B.C.	215	1-11-12
Turner, William	Hillcrest	244	31- 7-13
Thomas, John B.	Edmonton	46	19-11-14
Thomson, Roger A.	Lovettville	66	22-12-14
Thomson, David	Lovettville	82	19- 8-15
Tenant, Robert	Drumheller	84	19- 8-15
*Troman, Samuel	Lethbridge	87	26- 8-15
Turner, Leonard	Nordegg	125	19- 7-16
*Theron, George	Pocahontas	142	12-12-16
Tenant, John	Lethbridge	165	10- 7-17
Terris, Andrew	Nordegg	170	17- 7-17
Tennant, William G.	Lethbridge	228	8- 6-18
Tisdale, James R.	Winnipeg	231	8- 6-18
Thomason, Charles	Blairmore	234	14- 6-18
Talbot, William	Drumheller	235	22- 6-18
Thomson, James	Beverly	425	1- 8-21
Thomson, George H.	Lethbridge	433	29- 8-21
Thompson, Andrew	Aerial	267	26- 6-19
Thackray, Fred	Lethbridge	281	26- 6-19
Travis, Joseph	Bankhead	303	26- 7-20
*Terris, Chaperen	Saunders	429	1- 8-21
Thornhill, John E.	Coalhurst	482	1- 8-22
Tannucci, Joseph	Brule	485	1- 8-22
Tilley, John C.	Bellevue	511	30- 6-23
Taylor, William	Midlandvale	514	17- 8-23
Turner, William H.	Blairmore	525	17- 8-23
Tucker, John M.	Entwistle	528	17- 8-23
Talbot, Walter J.	Clover Bar	533	17- 8-23
Trentham, Harry	Ghost Pine	536	17- 8-23
Teasdale, J. R. W.	Drumheller	540	1- 9-23
Tyldsley, Albert	Beverly	545	1- 9-23
Thomson, Walter	Clover Bar	628	26- 7-26
Taylor, John	Drumheller	649	1- 8-27
Tompkins, David F. R.	Foothills	659	1- 9-27
Thomson, William	Edmonton	683	1- 8-28
Thomas, Edward J.	Drumheller	706	24-11-28
Thomson, John	Edmonton	758	4- 6-30
Thirlwell, Wm.	Robb	4	20- 2-31
Tyler, Edward	Lethbridge	5	13- 7-31
Thomas, William	Luscar	38	26- 7-31
Thomas, David S.	Midlandvale	55	21- 3-32
Tyler, Harold	Lethbridge	70	25- 6-32
Taylor, Robert	Calgary	85	24- 8-32
Tonge, Reginald	Blairmore	90	30- 9-32
Thomson, Alexander	Edmonton	141	5- 6-34
Taylor, Edward	Groton	154	9- 6-34
Tiffin, Richard	Coleman	188	10- 6-35
Thomas, David R.	Ryley	241	6-11-36
Tiberghiem, A. J.	Coleman	264	23- 6-37
Turner, William A.	Halcourt	262	23- 6-37
Thompson, John W.	Drumheller	274	1- 9-37

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Treventhin, Mark	Wayne	305	22- 6-38
Tennant, James	Mountain Park	358	8- 6-39
Thomson, John D.	Drinnan	360	8- 6-39
Thomas, David R.	Luscar	379	4- 7-39
Tinsley, Albert J.	Rosedale Station	381	4- 7-39
Utley, Frederick W.	Bellevue	250	26- 6-19
Unsworth, Robert J.	Scapa	399	12-10-39
Urwin, Henry	Canmore	123	29- 7-33
Unsworth, George	Scapa	399	12-10-39
Vola, Serafino	Canmore	63	1- 2-09
Vaselenak, Michael P.	Lethbridge	159	10- 7-17
Vickers, William A.	Taber	443	10- 3-22
Villard, Henry	Wayne	450	31- 7-22
Vannucci, Luigi	Brule	629	26- 7-26
Vining, Samuel	Luscar	635	30- 7-26
Vivyrka, John	Mercoal	44	26- 7-31
Van Schoorl, August	Coleman	228	22- 6-36
Valentini, Marcelli	Bow Island	309	22- 6-38
Vanbesien, Jules	Champion	368	22- 6-39
Van Duncombe, Walter	Taber	394	12- 9-39
Watkins, W. E.	Champion	1	14-11-98
Wilson, John	Canmore	2	15-11-98
Watkins, John W.	Canmore	3	15-11-98
Waite, Archibald	Taber	11	6- 7-03
White, Harry J.	Coalhurst	677	19- 7-28
Woolney, Karl	Bellevue	681	1- 8-28
Wiltz, Donald H.	Edmonton	688	1- 8-28
Whitehead, J. W.	England	712	7- 6-29
Williams, L. A.	Edmonton	768	4- 6-30
Womersley, E.	Blairmore	783	10- 6-30
Williams, H. A.	Mountain Park	792	3- 7-30
White, Michael	Drumheller	806	29-10-30
Williams, Walter	Alix	29	13- 7-31
Walsh, James C.	Bellevue	34	13- 7-31
Williams, D. J.	Mountain Park	35	13- 7-31
Watkin, Geo. E.	Bittern Lake	59	2- 6-32
Walton, Geo. A.	Forestburg	67	25- 6-32
Watson, David	Leduc	77	11- 7-32
White, George	Nordegg	83	24- 8-32
Williams, Wm.	Barnwell	87	23- 9-32
Woodward, Clarence	Bellevue	94	16- 2-33
Wilkinson, James	Bragg Creek	116	3- 7-33
Watters, David G.	Drumheller	120	29- 7-33
Wiltse, Floyd N.	Forestburg	125	29- 7-33
Wilson, Charles	Lethbridge	130	8- 9-33
Webb, James F.	Canmore	42	8- 4-05
Wilson, William G.	Washington, U.S.A.	3	20-12-05
Watters, John	Burmis	5	20-12-05
Welsh, W. R.	Burmis	9	3- 1-07
Wrigley, Walter	Cadomin	37	10- 1-08
Willmott, William	Canmore	38	10- 1-08
Watters, A. G.	Banff	49	29- 5-08
Weston, Thomas	Edmonton	73	7- 4-09
White, Harry	Hillcrest	90	29-11-09
Williams, Walter E.	Edmonton	213	31-10-12
Williams, John J.	Edmonton	223	25-11-12
Whitefield, Isaac	Coalhurst	15	10- 3-14
Williams, John T.	Bellevue	33	23- 5-14
Wesnedge, William	Nanaimo, B.C.	58	5-12-14
Wardrop, James	Canmore	72	16- 2-15
Worthington, Thomas	Lethbridge	92	1- 9-15
Wallwork, William	Taber	118	10- 7-16
Watkins, James M.	Taber	128	26- 7-16
Williams, Albert	Edmonton	138	25- 9-16
Wilcox, William J.	Edson	140	11-11-16
Willett, Frederick	Lethbridge	162	10- 7-17
Wilson, Alexander	Midlandvale	169	17- 7-17
Wolstoncroft, Robert	Commerce	175	17- 7-17
Watson, Adam G.	Calgary	215	1- 6-18
Wheatcroft, Fred Jr.	Drumheller	225	8- 6-18
White, John M.	Lethbridge	233	14- 6-18
Warren, Michael	Edmonton	304	26- 7-20
Womersley, Alfred	Redcliff	316	26- 7-20
Wright, S. P. T.	Coalhurst	336	26- 7-20
Walker, H. M.	Bellevue	368	26- 7-20
Watson, James	Edmonton	378	1- 8-21
Woollett, Charles	Edmonton	379	1- 8-21
Walker, Charles C.	Wayne	385	1- 8-21
White, William	Hillcrest	388	1- 8-21
White, Alfred	Hillcrest	389	1- 8-21
Wheatcroft, George L.	Wayne	394	1- 8-21

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Wilkie, John	Sheerness	405	1- 8-21
White, Robert	Nordegg	411	1- 8-21
White, William	Coleman	427	1- 8-21
Whyte, William	Lethbridge	446	16- 6-22
Williamson, John B.	Cadomin	473	31- 7-22
Wood, Matthew	Bellevue	508	17- 5-23
Wylie, James	Commerce	520	17- 8-23
Weaver, William	Natal, B.C.	530	17- 8-23
Whitelaw, William	Blairmore	532	17- 8-23
Whelan, Charles J.	Newcastle P.O.	556	4-12-23
Williamson, David S.	Camrose	558	18-12-23
Waller, Herbert	Natal, B.C.	562	28-12-23
Willets, Norman	Hillcrest	571	24- 7-24
Williams, Hugh	Nordegg	577	1- 8-24
Wilton-Clark, Harry	Bellevue	594	20- 7-25
Wheatley, Frank M.	Banff	599	20- 7-25
Wiswell, Byron	Blairmore	637	6- 8-26
Wilson, Samuel	Drumheller	639	20- 8-26
Whittaker, William C.	Coal Valley	643	25- 5-27
Westcott, Henry M.	Wayne	651	1- 8-27
Warneboldt, Julius	Chilliwack, B.C.	658	1- 9-27
Withington, Harry E.	Newcastle, P.O.	664	14-10-27
Williams, John	Barnwell	161	16- 6-34
White, John	Nordegg	210	10- 8-35
Wright, S. P. T.	East Coulee	243	1- 2-37
Whyte, David	Pipestone Creek	253	11- 6-37
Waddington, Daniel M.	Coleman	259	23- 6-37
Wheatley, James W.	Banff	276	4-10-37
Wheeler, Albert	Clyde	282	24- 3-38
Wolff, Alfred	Willow Creek	387	12- 8-39
Young, Thomas	Taber	57	11- 1-09
Young, Samuel	Cardiff	101	18- 1-10
Yates, James	Coleman	504	15- 2-23
Young, David B.	Picture Butte	581	25- 9-24
Young, Robert	Newcastle P.O.	603	25- 7-25
Young, Robert	Newcastle P.O. (Duplicate)	788	14- 6-30
Young, Albert	Foreman	159	16- 6-34
Young, John	Drumheller	214	29- 8-35
Young, Warren	Wayne	216	30- 8-25
Young, Charles	Newcastle	278	10-11-37
Yarham, John I.	Forestburg	321	8- 8-38
Yorko, Simon A.	Shaughnessy	345	8- 6-39
Yard, Lloyd Geo.	Trochu	373	22- 6-39
Zak, Albert	Commerce	324	26- 7-20
Zambo, Joseph	Aerial	292	10- 6-38
Zaputil, Frank W.	Rosedale	397	12- 9-39

List of Names of Holders of Mine Surveyors' Certificates issued by the Government of the Province of Alberta to December 31, 1939:

Aspinall, Francis	Vancouver	1	7- 8-15
Adam, William A.	Lethbridge	40	21- 8-15
Ashburner, Edward	Medicine Hat	79	1- 9-15
Allen, Peter	Wayne	109	23-11-15
Atkins, Cecil B.	Edmonton	162	17- 7-23
Brown, John	Calgary	30	20- 8-15
Billington, Edward E.	England	42	23- 8-15
Biltteryst, Jean	Calgary	73	1- 9-15
*Black, Ernest D.	Nova Scotia	75	1- 9-15
Baxter, Andrew W.	Calgary	119	23-11-15
Brown, Hugh R.	Carbon	125	10- 7-16
Brown, Thomas	Edmonton	133	17-11-17
Burgess, Wilfred D.	Trail, B.C.	169	18-12-23
Coulthard, Robert W.	Toronto, Ont.	20	7- 8-15
Church, James A. H.	Nova Scotia	21	7- 8-15
Charlesworth, Lionel C.	Edmonton	22	7- 8-15
*Callander, Ira C.	Pocahontas	39	21- 8-15
Charbonnier, Jules	Blairmore	72	1- 9-15
*Cote, Jean L.	Edmonton	80	1- 9-15
Cautley, Reginald H.	Edmonton	81	1- 9-15
*Crowder, James	Blairmore	111	23-11-15
Cook, Arnold B.	Calgary	113	23-11-15
Cummin, Charles H.	Edmonton	135	3- 7-18
Crowder, Harry	Drumheller	152	26- 7-20
Congdon, Milton H.	Blairmore	157	1- 8-21
Clement, Adolph L.	Cadomin	158	1- 8-21
Cameron, Alan E.	Edmonton	154	9- 3-21

List of Names of Holders of Mine Surveyors' Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Carthew, John T.	England	164	17- 7-23
Chavignaud, Louis G.	Hinton	165	17- 7-23
*Davidson, W. A.	Rosedale	7	7- 8-15
Drinnan, Robert G.	Edmonton	8	7- 8-15
DeHart, Joseph B.	Lethbridge	45	23- 8-15
*Dougall, Ralph	Bankhead	49	23- 8-15
Drummond, Leonard E.	Edmonton	51	23- 8-15
Dunn, Alex C.	Edmonton	55	23- 8-15
*Darbyshire, James	Drumheller	69	1- 9-15
Duggan, William H.	Foothills	84	1- 9-15
*Driscoll, Alfred	Edmonton	91	7- 9-15
Dennin, Frederick W.	England	100	9- 9-15
Davis, Alfred	Lethbridge	114	23-11-15
Daniell, G. W. B.	Nanaimo, B.C.	126	10- 7-16
Donaldson, C. S.	Lethbridge	151	26- 7-20
Dewis, Clifford S.	Canmore	163	1- 8-22
Drinnan, R. G. Jr.	Edmonton	181	8- 8-30
Elliott, Edward P.	Pocahontas	33	20- 8-15
Ellis, William	Three Hills	94	7- 9-15
*Evans, Daniel	Edmonton	123	29-12-15
Elliott, G. R.	Calgary	150	26- 7-20
*Fraser, Norman	Edmonton	15	7- 8-15
Foot, Robert G.	Coleman	54	23- 8-15
Finnie, Oswald S.	Ottawa	57	23- 8-15
Flint, William G.	Edmonton	76	1- 9-15
Fortner, Edward	Tennessee, U.S.A.	83	1- 9-15
*Fraser, A. T.	Edmonton	121	18-11-15
Foster, William	Robb	167	1- 9-23
French, Merritt H.	Calgary	3	22- 8-33
Fraser, Arthur A.	Coleman	8	2- 9-37
Green, Raoul	Calgary	70	1- 9-15
Gallon, Emile	France	89	7- 9-15
Gray, David	Washington, U.S.A.	110	23-11-15
*Gheur, Ernest	Nordegg	129	22- 2-17
Graham, A. E.	Coleman	168	15- 9-23
Gardner, H. H.	Coleman	180	23- 7-29
Hutchison, David	Hillcrest	29	20- 8-15
*Huntrods, E. S. F.	Taber	34	20- 8-15
Hardie, W. D. L.	Lethbridge	50	23- 8-15
*Holden, Jas. O. E.	Drumheller	46	23- 8-15
Hargreaves, James	Victoria, B.C.	52	23- 8-15
Hamilton, James F.	Lethbridge	56	23- 8-15
Henderson, Thomas R.	Scotland	67	1- 9-15
Hutchison, William	Hillcrest	68	1- 9-15
Hamilton, Robert	Three Hills	74	1- 9-15
Horne, Thomas	Edson	82	1- 9-15
*Harrison, Stephen	Lethbridge	85	1- 9-15
Hyde, Marcus L.	California	95	7- 9-15
*Hamilton, W. L.	Lethbridge	117	23-11-15
Hamilton, Allan	Drumheller	131	7- 7-17
Hall, W. E. G.	Blairmore	143	2- 7-19
Hetherington, W. B.	British Columbia	144	9- 7-19
Higgins, Alexander	Calgary	145	15- 7-19
Hollies, R. T.	Calgary	153	9- 3-21
Hunter, A. B.	Drumheller	156	1- 8-21
Howells, N.	Wayne	160	3-11-21
Hnatyshyn, Andrew C.	Luscar	171	24- 7-24
Hughes, Edward	Mayerthorpe	174	25- 9-24
Hewitt, Herbert E.	Blairmore	6	7- 8-36
Hamilton, Duncan C.	Drumheller	10	1-10-38
Jones, Samuel A.	Nanaimo, B.C.	26	19- 8-15
Jones, David	Edmonton	32	20- 8-15
*Johnson, Moses	Blairmore	130	7- 7-17
Jones, John, R. B.	Hinton	5	1- 8-36
Kellogg, George	Coleman	105	23-11-15
*Kellett, Walton	Lethbridge	47	23- 8-15
*Knight, R. R.	Edmonton	96	9- 9-15
Knight, Sidney	Ottawa	122	3-12-15
Kidd, G. L. S.	Drumheller	132	10-10-17
Kelly, O. G.	Carboneale	2	29- 7-33
Livingstone, Robert	Lethbridge	9	7- 8-15
Lee, Robert J.	Estevan, Sask.	64	1- 9-15
Lavoie, G. A.	United States	44	23- 8-15
Lyster, H. M.	Toronto, Ont.	77	1- 9-15
Leblanc, Emile	Wayne	107	23-11-15
Lindoe, Luke	Coleman	136	3- 7-18
Lewis, John W.	Mountain Park	159	10-10-21
Livingstone, Robt. D.	Lethbridge	11	25- 7-39
*Morris, J. J.	Canmore	14	7- 8-15
Morris, R. H.	Virginia, U.S.A.	17	7- 8-15
Milne, M. C.	Virginia, U.S.A.	78	1- 9-15
*Mills, Harry W.	Bankhead	92	7- 9-15
Maxwell, W.	Westville, N.S.	93	7- 9-15
Millar, A. A.	Edmonton	97	9- 9-15

THE MINES BRANCH

List of Names of Holders of Mine Surveyors' Certificates—Continued:

Name	Address	Cert. No.	Date of Issue
Meldrum, Wm.	Lethbridge	98	9- 9-15
Moodie, K. S.	Vancouver	101	9- 9-15
Marshall, J. W.	Evansburg	106	23-11-15
*Marsh, John	Taber	124	4- 4-16
Morgan, O.	Saunders	148	26- 7-20
Moore, H. D.	Edmonton	149	26- 7-20
Millen, John	Trail, B.C.	172	24- 7-24
Melnyk, N.	Cadomin	182	10- 9-30
Morgan, T. E.	Hillcrest	183	29-10-30
Morris, William	Edmonton	12	1- 8-39
McNeill, W. F.	Calgary	6	7- 8-15
McLeod, John A.	Cadomin	35	20- 8-15
McLennan, J. A.	Coalspur	37	21- 8-15
Macaulay, A. G.	Midlandvale	41	23- 8-15
Macaulay, D. A.	Drumheller	60	31- 8-15
McCulloch, James	Vancouver, B.C.	104	23-11-15
McDonald, Duncan	Drumheller	118	23-11-15
*McVicar, Samuel	Beaver Mines	120	23-11-15
*McDonald, John R.	Edmonton	128	22- 2-17
McMullen, Arthur	Nordegg	1	26- 7-31
O'Donnell, Thomas	Rosedale	102	9- 9-15
Pitcher, Norman C.	Edmonton	10	7- 8-15
*Parker, John L.	Canmore	11	7- 8-15
Pickles, Wm.	Edmonton	24	18- 8-15
*Puckett, O. L.	Robb	31	20- 8-15
Ponton, G. M.	Calgary	63	1- 9-15
Piard, Marc	Blairmore	88	7- 9-15
Powell, A. E.	Lundbreck	108	23-11-15
Pascoe, Thomas	Mountain Park	178	1- 8-27
Pratt, John	Coleman	4	22- 7-35
Quigley, Daniel H.	Coalhurst	142	2- 7-19
Reid, J. C.	Oklahoma, U.S.A.	12	7- 8-15
Richards, J. A.	Edmonton	13	7- 8-15
*Robertson, J. D.	Edmonton	23	7- 8-15
Robertson, J.	Drumheller	61	1- 9-15
Reid, A. H.	Oklahoma, U.S.A.	62	1- 9-15
Robert, L. P.	Blairmore	65	1- 9-15
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